

Atlas Solutions

Time Saving Devices



Atlas Sound Time Saving Devices are designed to solve common audio system problems efficiently and cost-effectively. Utilizing the highest quality components and inspired by real world installation issues, the TSD line includes mixers, amplifiers, preamps, and other distribution and control devices.



Models are housed in a compact 1.5" x 3.9" x 2.75" or 1.5" x 3.9" x 5" chassis allowing for placement almost anywhere. Common features include removable individual I/O connectors for quick and precise wiring, separate ground terminals for all I/Os assuring secured connections, and removable level controls that can be replaced with a tamper-proof security cover.



Each TSD module is highly efficient and meets Energy standards as one 24VDC power supply can power multiple Atlas Time Saving Devices (available separately).



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Distribution Amplifiers

TSD-DA13

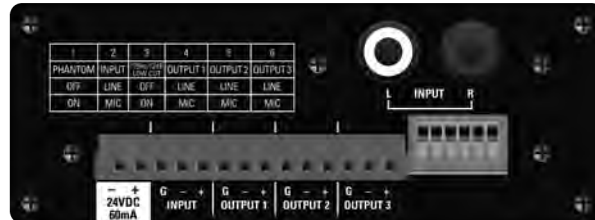
The TSD-DA13 1x3 distribution amplifier is designed to provide clean, isolated signal distribution locally or to remote locations. The unit allows a balanced mic or line level source to be distributed to three isolated variable outputs making it a perfect solution for applications including convention centers, houses of worship, restaurants/sports bars and industrial facilities.

A high quality, low noise mic pre-amp, defeatable 3dB low cut filter @ 125Hz and dual summing RCA line level

inputs are included as part of the unit's input section. These features combined with the 3 mic / line level outputs allow for multiple configurations.

Isolation between outputs prevents crosstalk, removes miss matched input impedance concerns and allows for adjustable levels on each connected device.

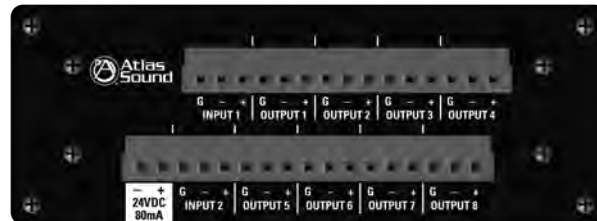
All I/O (except the summing RCA inputs) is via Phoenix style connectors for installation convenience.



TSD-DA28

The TSD-DA28 2x8 distribution amplifier is designed to provide clean, isolated signal distribution locally or to remote locations. The unit allows two independent balanced line level source inputs to be distributed to eight isolated variable outputs making it a perfect solution for applications including convention centers, houses of worship, restaurants/sports bars and industrial facilities.

Isolation between outputs prevents crosstalk, removes miss matched input impedance concerns and allows for adjustable levels on each connected device. All I/O is via Phoenix style connectors for installation convenience and inputs may be easily paralleled for 1 in / 8 out configuration.



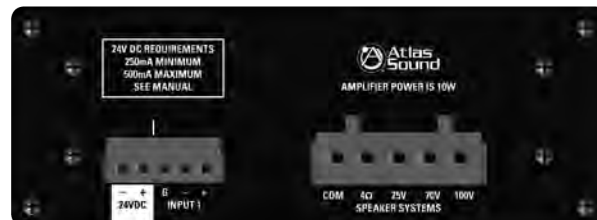
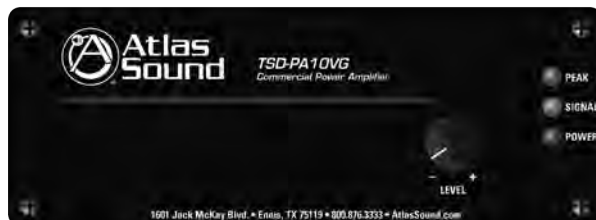
Power Amplifiers

TSD-PA10VG

The TSD-PA10VG is a cost effective mono amplifier for 4Ω and distributed constant voltage speaker systems. Applications such as house of worship cry rooms, restrooms, and foyers will benefit from this compact reliable amplifier. The TSD-PA10VG is also a good alternative for small projector systems as it can be used with as many as (8) 25/70/100V ceiling speakers (tapped at 1W each), plus the extremely small footprint allows

for easy mounting. For sound masking applications the TSD-PA10VG has the capacity to drive up to 17 masking speakers tapped at .5W each on a 70.7V line.

Output is gain controlled from a potentiometer on the front panel with removable knob to facilitate installation of a tamper resistant cover (included).



Tamper Resistant Security Covers Included with All Models

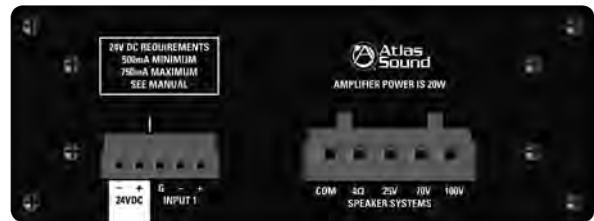
Power Amplifiers

TSD-PA20VG

The TSD-PA20VG is a cost effective mono amplifier for 4Ω and distributed constant voltage speaker systems. Applications include hallways and classrooms. The TSD-PA20VG is also a cost effective alternative for small projector systems as it can be used with as many as (16) 25/70/100V ceiling speakers (tapped at 1W each), plus the extremely small footprint allows for easy mounting. For sound masking applications the TSD-PA20VG has the

capacity to drive up to 34 masking speakers tapped at .5W each on a 70.7V line.

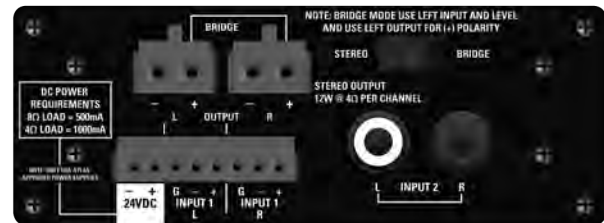
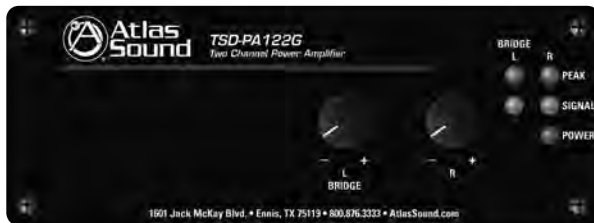
Output is gain controlled from a potentiometer on the front panel with removable knob.



TSD-PA122G

The TSD-PA122G 4Ω stereo amplifier is perfectly suited for almost any general amplification requirement. Perfect for adding sound reinforcement to small projector systems as it provides ample power to drive up to four 8Ω loudspeakers in a classroom or boardroom application.

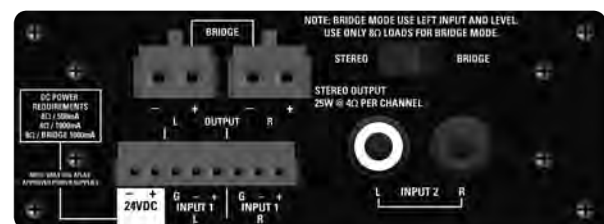
Output is 12W per channel at 4Ω or 24W bridged mono at 8Ω. Input is via balanced stereo phoenix style and unbalanced RCA connectors. Front panel gain controls provide adjustment for both left/right or bridged outputs and include removable knobs.



TSD-PA252G

The TSD-PA252G is a reliable, cost effective 4Ω stereo amplifier well suited for higher power amplification requirements.

Output is 25W per channel at 4Ω or 50W bridge mono at 8Ω. Input is via balanced stereo phoenix style and unbalanced RCA connectors. Front panel gain controls provide adjustment for both left/right or bridged outputs and include removable knobs.



Preamps and Mixers

TSD-ML11

The TSD-ML11 high headroom, low noise mic preamp is perfect for use as a standalone preamp or in conference room systems, board meetings, courtrooms, council chambers, and public forum systems that need mute and push to talk microphone functions.

Unit features switchable phantom power for powering condenser microphones and has four EQ cut filters centered at common frequencies to eliminate feedback and control voice shaping. The variable mic preamp helps further eliminate noise for quiet operation as well

as reduces unwanted coloration and changes in tonality and a 12dB @ 125Hz high pass filter is available on each mic input to minimize bass rumble and low frequency feedback in the system and ensure focus and clarity stays on voice sound spectrum. An output limiter/compressor is also included for system protection to avoid clipping and eliminate distortion. Mic Mute and Mic On control allows microphones in the system to be push-to-talk enabled or muted for speaker priority.



TSD-RL21

The TSD-RL21 2x1 mic/line mixer is ideal for paging, public address, and BGM music applications. Use as a standalone remote mixer or in conjunction with Atlas Sound power amplifiers in applications such as conference center meeting rooms, football stadiums, gymnasiums, retail/hospitality, or other areas requiring versatile, multi source mix control.

to accommodate mic or line level while channel two features a stereo summing RCA line level input.

The remote level control feature allows use of the AAVC-10K (or equivalent) decorative wall plate control for convenient remote adjustment of either the entire mix bus or RCA input 2 only (the typical BGM input).

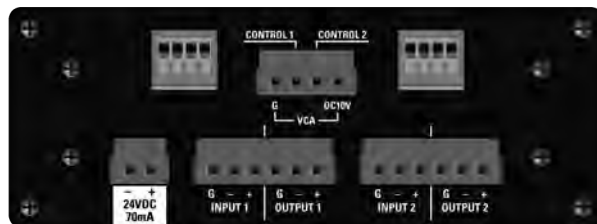
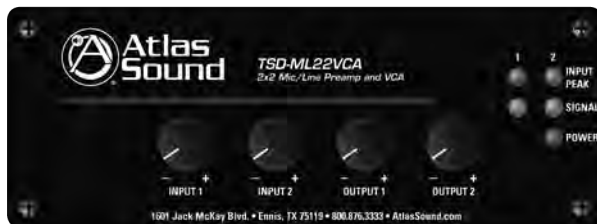
Channel one may be configured via rear panel dipswitch



TSD-ML22VCA

The TSD-ML22VCA is a 2 input, 2 output true VCA with enhanced features including a high quality microphone pre amplifier. VCA's inserted prior to amplification provide a far more efficient solution than transformer-based attenuators for volume adjustment in high power music applications. The dual channel design can provide level control for two separate discrete zones or stereo sources and is perfect for use in sports bars, restaurants, hotels or other installations.

The TSD-ML22VCA also provides two high quality, low noise mic pre-amps, which allow simplification of designs that require remote microphone level adjustment. Switchable phantom power is provided for powering condenser microphones and a 12dB/octave @ 125Hz high pass filter is available on each mic input to minimize bass rumble and low frequency feedback in the system ensuring focus and clarity for the voice spectrum.



Tamper Resistant Security Covers Included with All Models



Preamps and Mixers

TSD-MIX31RL

The TSD-MIX31RL 3x1 mic/line mixer includes two mic/balanced line inputs via removable Phoenix style connectors and a stereo summing dual RCA input. Switchable phantom power is provided for both mic inputs to facilitate condenser microphones. The high quality, low noise internal mic preamps ensure clarity and quiet operation without unwanted coloration. A 12dB / octave high pass filter @ 125Hz also is available on each input to minimize bass rumble and low frequency feedback.

Priority paging can be accomplished via contact closure or VOX trigger on Input 1 (mutes input 3 only). Remote level control feature allows use of the AAVC-10K (or equivalent) decorative wall plate control for convenient remote adjustment of either the entire mix bus or input 3 only (typical BGM input).

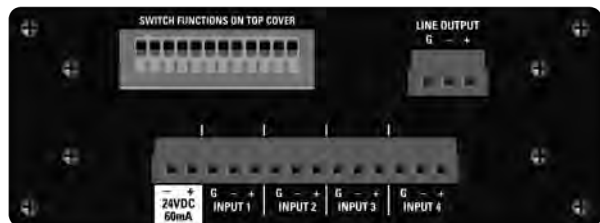
A variable output limiter provides system protection by reducing clipping and distortion - which is especially useful when mixing multiple mics and/or line sources with varying volumes.



TSD-MIX41

The TSD-MIX41 4x1 mic/line mixer is ideal for applications where multiple mic or line sources need to be sub mixed or summed. In house of worship applications the TSD-MIX41 is especially useful for combining similar sources such as choir microphones to a single mixer channel. The unit also works well as a stand-alone mic/line mixer that can be easily interfaced with Atlas Sound amplifiers. Other applications include restaurants, conference rooms, and schools.

Each input is mic/line switchable with phantom power provided for condenser microphones. The high quality, low noise internal mic preamps ensure clarity and quiet operation without unwanted coloration. A 12dB/octave high pass filter @ 125Hz also is available on each input to minimize bass rumble and low frequency feedback.



Sound Masking Generator

TSD-GPN1200

The TSD-GPN1200 sound masking generator is a great solution for basic masking systems. The analog topology design eliminates repeating cycles commonly found in other manufactures low cost digital designs. The TSD-GPN1200 allows selection between pink or white noise sources and incorporates a variable balanced output to match any amplifier input requirements.

Additionally, a 4W, output is provided to power up to six masking loudspeakers tapped at .5W each. A variable hi-cut filter with operating range between 1kHz and 8kHz at a slope of 6dB per octave supports equalization requirements for Sound Masking systems. Both outputs may be used simultaneously allowing large zones to be addressed with external equalization and amplification while a smaller zone is powered by the internal amplifier with spectrum control provided by the hi-cut filter.



Audio Level Controller / Limiter

TSD-ALC2

The TSD-ALC2 is an automatic 2-channel audio level controller/limiter that allows designers and installers the ability to set predetermined maximum source levels. The TSD-ALC2 is great for installations with multiple program sources including satellite receivers, mp3 players, etc. that typically display gross output level irregularities. Because the audio content varies drastically, the TSD-ALC2 offers two ramp speed settings to maximize the audio auto lever performance for the specific application. With the TSD-ALC2 inserted in line with

these sources the audience will not be distracted during high volume commercial breaks or when different inputs are selected. Retail stores, restaurants, sports bars, hotels, event centers and other facilities can all benefit from improved sound when the TSD-ALC2 is integrated.

Features include stereo RCA input and output connectors, threshold level and output gain and ramp speed adjustments. The TSD-ALC2 also works well when used in conjunction with Atlas Strategy Series Mixer Amplifiers.

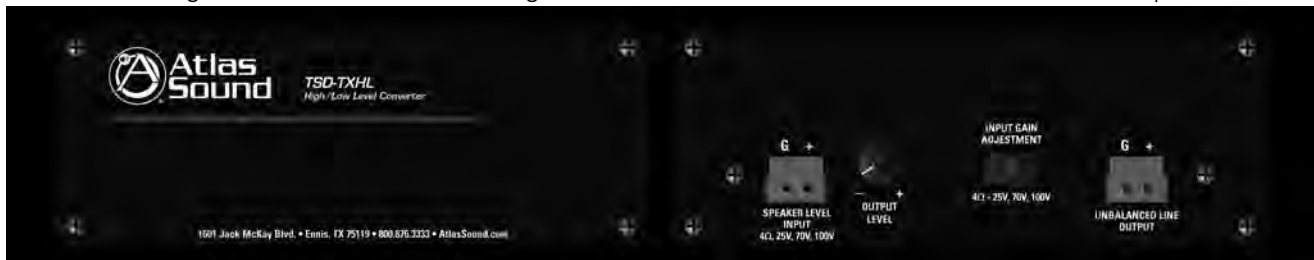


Level Converter

TSD-TXHL

The TSD-TXHL is a high to low level converter designed to interface with 4Ω/25/70/100V distributed speaker lines. An unbalanced line level output is provided to drive remote amplifiers or other devices. The TSD-TXHL allows easy expansion of zones without the need for dedicated wiring to remote locations. The high to

low-level converter features an isolated transformer, which will not add measurable load to the speaker line. An output level control allows for trim adjustment to best match the remote amplifier (or other device) input sensitivity. The TSD-TXHL works perfectly in conjunction with Atlas Sound's CP and PA series amplifiers



Tamper Resistant Security Covers Included with All Models

Impedance Divider / Combiner

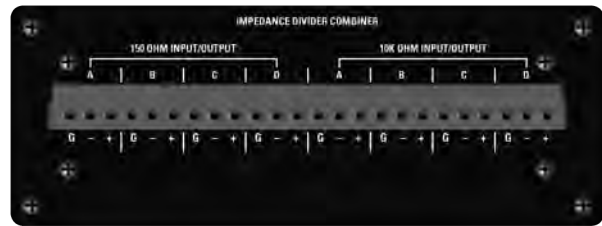
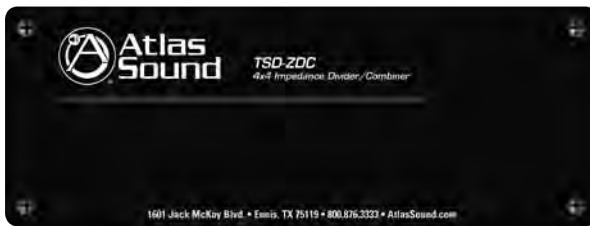
TSD-ZDC

The TSD-ZDC is a universal impedance divider/combiner for passively summing or splitting of mic or line level signals. Features include four unbalanced 10K and four balanced 150Ω inputs/outputs that may be passively split or combined in any arrangement.

Typical applications include passive summation of multiple 150Ω mics or stereo 10ΩK sources and passive

splitting of 150Ω or 10KΩ input sources to multiple outputs.

To ease contractor use and installation the TSD-ZDC includes individual ground connectors for each input/output. The unit's compact footprint allows for easy standalone mounting or an optional rack mount adapter may be used to facilitate up to (4) TSD devices.



Sequencer

TSD-SEQ6

The TSD-SEQ6 is a compact sequencer controller with 6 outputs that are configurable individually to be either a 24VDC output or hard switch contact closure. There are two separate output sequence delay timers ranging from 1 second to 6 minutes activation is via the front panel or remotely with hard CC switch, momentary CC Switch,

or DC Voltage. The TSD-SEQ6 also incorporates an Emergency Power Down (EPD) port for local fire codes. Two TSD-SEQ6 units may be linked together for a total of 12 sequenced outputs.

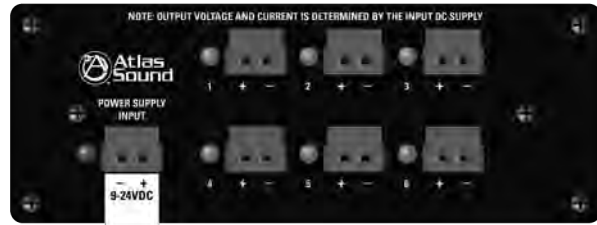


DC Power Distribution

TSD-DCPD

The TSD-DCPD is designed to distribute power to TSD devices or other equipment requiring DC power without the need for separate power supplies. One 9-24V PSU input is distributed to 6 independent, isolated outputs.

The compact TSD-DCPD will help remove rack clutter and free up power strip space.

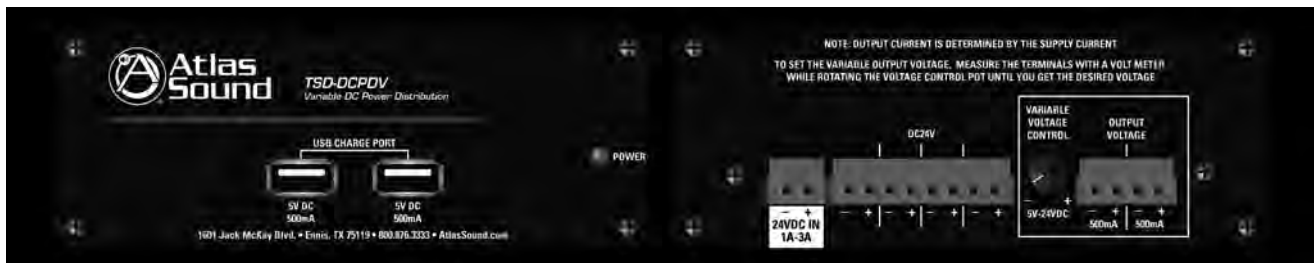


TSD-DCPDV

The TSD-DCPDV is designed to distribute power to TSD devices or other equipment requiring DC power and is also ideal for use with wireless microphones that typically require 12-18VDC PSUs.

power supply up to 2500mA, four fixed 24V outputs and two 5-24V variable outputs. Voltage for variable outputs is adjusted from a secure trim pot. In addition, two front panel USB ports are available for charging other devices or for USB style rack lighting.

Rear panel includes one 9-24V input for a user selectable



Power Supplies and Accessories

Power Supplies for the Atlas Sound Time Saving Devices are available separately. One 24V power supply can supply power to up to six TSDs when used with the TSD-DCPD or TSD-DCPDV power distribution units. This helps remove rack clutter, free up power strip space, and comply with energy saving standards for efficient power management. Available in 250mA, 500mA, and 2500mA versions allow for ordering to match individual system requirements.



TSD-PS24V250MA



TSD-PS24V500MA



TSD-PS24V2500MA

Rack mount option to support up to four Time Saving Devices.



TSD-RMK



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