Features

- Stereo or Mono Configurations
- One Balanced Mic/Line Input
- Switchable 24V Phantom Power
- Three Unbalanced Stereo Line Inputs 3.5mm
- VOX Sense and Contact Closure, Priority Mute
- Variable Output Limiter
- Remote Level Control
- 12dB/Octave Low Cut Filter @ 125Hz Mic/Line
- Remote Control Input Select & Level Control
- Audio Auto Sensing Juke Box Override
- Input Signal & Peak Indicator LEDs
- High Gain Output for Driving Long Balanced Lines
- Separate Ground Connections
- Security Covers Included for All Front Panel Controls
- Cable Management System
- Multiple Mounting Configurations
- Removable Phoenix Style I/O Connectors
- Meets Most Energy Standards
- Compact Chassis Design

Audio Applications

- Mixer
- Mic Preamp
- Line Preamp
- Stereo Summing Preamp
- Line Drive
- Remote Level Control
- Priority Paging
- Music Override
- Digital Signal Auto Sense

Atlas Time Saving Devices

New Atlas Sound Time Saving Devices are designed to solve some of the common audio system problems in the easiest and in the most efficient and cost-effective way. Utilizing the highest quality components and inspired by real world installation issues, the Atlas Sound TSDs include mixers, amplifiers, preamps, and other distribution and control devices to simplify your connections, provide specific application needs, and add flexibility in expansion and changes that prevent expensive system overhauls.

The Time Saving Devices are loaded with features making them versatile and user friendly. The TSD design mandate was to make the installation quick and reliable, saving you valuable time and money. The TSD-MIX42RT is housed in a compact 1.5” x 4” x 2.5” footprint that allows 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-resistant security cover.

Description

The Atlas Sound TSD-MIX42RT 4x2 mic/line mixer is ideal for applications where paging, priority music override and/or remote input selection with level control are required. Use alone or in conjunction with amplifiers in meeting rooms, digital signage, luxury suites, and other applications requiring versatile, stereo or mono multi source mix control.

The unit includes one mic/balanced line input via removable Phoenix style connector and three stereo 3.5mm inputs. Switchable phantom power is provided for the mic input 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 the mic input to minimize bass rumble and low frequency feedback.

The TSD-MIX42RT can be used in conjunction with a WPD-MIX42RT decor style wall plate that is designed for remote activation of the TSD-MIX42RT mic/line mixer. The WPD-MIX42RT features an audio source slide selector as well as a source volume control. The unit includes an LED indicator to indicate which source is selected and if it is active. The unit fits in a single gang electrical outlet and uses an 8-conductor interface connection that includes a single 4 position removable Phoenix connector and dual 2 position Phoenix style connectors. When connected to the TSD-MIX42RT and the Juke Box Override, any page made through the system will override the selected source so that the page can be heard clearly.

Priority paging can be accomplished via contact closure or VOX trigger on Input 1 that will mute Inputs 2, 3, or 4 (assignable). Remote level control feature allows use of the Atlas Sound AAVC-10K or WPD-VC10K decorative wall plate control for convenient remote adjustment of either the entire Master mix bus or Inputs 1, 2, 3. A variable output limiter provides system protection by reducing clipping and distortion - which is especially useful when mixing mic and/or line sources with varying volumes.

The TSD-MIX42RT is highly efficient and meets most energy standards as one 24V/DC power supply (available separately) can power multiple Atlas Time Saving Devices.
### Specifications

#### Description

4 x 2 Stereo Line Mixer with Priority Sense & Remote Level

#### Chassis Color

Black

#### Chassis Material

Aluminum

#### Inputs

<table>
<thead>
<tr>
<th>Type</th>
<th>Qty</th>
<th>Connection</th>
<th>Impedance</th>
<th>Input Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Qty 3, Unbalanced</td>
<td>3.5mm Stereo</td>
<td>10kΩ</td>
<td>316mV (-10dB) = 2V (+6dBV) Balanced Output, Maximum Input 1.6V (4.1dBV)</td>
</tr>
<tr>
<td>Type</td>
<td>Qty 1, Balanced Mic or Line Selectable</td>
<td>Removable 3 Position Captive Screw 3.5mm Spacing</td>
<td>1.2kΩ Balanced, 600Ω Unbalanced</td>
<td>46dB Gain, 10mV (-40dB) Balanced = 2V (+6dBV) Balanced Output, Maximum Input 40mV (-27dBV)</td>
</tr>
</tbody>
</table>

#### Outputs

<table>
<thead>
<tr>
<th>Type</th>
<th>Qty 2, Balanced Line, Left &amp; Right</th>
<th>Removable 3 Position Captive Screw 3.5mm Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Qty 2, Balanced Line, Left &amp; Right</td>
<td>Removable 3 Position Captive Screw 3.5mm Spacing</td>
</tr>
</tbody>
</table>

#### Controls

- Input Level Control Qty 4, Removable Knobs with Security Covers
- Mute CC Contact Closure, Removable 2 Position Captive Screw 3.5mm Spacing
- VOX Mute Sens Trim Adjust for Mic Sensitivity
- Output Limiter Threshold Adjust
- Remote Level Control Port 10kΩ External Pot, Removable 2 Position Captive Screw 3.5mm Spacing
- DC 12V Output 12V DC to power wall controller LED, Removable 2 Position Captive Screw 3.5mm Spacing
- Wall Controller Interface Connects to optional WPD-MixX2RT wall controller, Removable 4 Position Captive Screw 3.5mm Spacing

**Note:** Juke Box Override will not work when Remote Wall Plate is activated

#### Dip Switch Functions

- Dip Switch # 1 24VDC Phantom Power
- Dip Switch # 2 Input 4 Mic or Line Select
- Dip Switch # 3 Low Cut Filter 125Hz
- Dip Switch # 4 Juke Box Override
- Dip Switch # 5 Juke Box Override Mute Hold Delay
- Dip Switch # 6 Input 3 Mute Receive
- Dip Switch # 7 Input 2 Mute Receive
- Dip Switch # 8 Input 1 Mute Receive
- Dip Switch # 9 Outputs Left and Right Stereo/Mono
- Dip Switch # 10 Remote Level Master/Inputs 1,2,3
- Dip Switch # 11 Wall Plate Activation **Note:** Juke Box Override will not work when Remote Wall Plate is activated
- Dip Switch # 12 Not Used

#### Indicators

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Signal</td>
<td>Green, 25mV ON Threshold</td>
</tr>
<tr>
<td>Input Peak</td>
<td>Red, -3dB Before Clip</td>
</tr>
<tr>
<td>Limiter</td>
<td>Red, Limiter Activation</td>
</tr>
<tr>
<td>Power</td>
<td>Blue</td>
</tr>
</tbody>
</table>

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Electrical
Frequency Response: 20Hz - 20kHz (±1dB)
THD: .06% @ 1kHz
Signal to Noise:
- Line to Line: 85dBV
- Mic to Line: 78dBV
Output Limiter: Threshold Adjust 50mV Minimum Output to No Limit

Mounting
Velcro: Industrial-Grade, Included
Brackets: Qty 2, Included
TSD-RMK: Optional 1 RU Rack Mount Panel (Supports up to 4 TSD Units)
Cable Retainer: Qty 2, Included

Power
Voltage: 24VDC, 60mA
Power Consumption Current: 60mA
Power Consumption VA Watts: 1.4W

Dimensions
H: 1.5" (39mm) x W: 4" (101mm) x D: 2.5" (70mm)

Weight
13.4oz, .3kg

Accessories
WP MIX42RT: Wall Plate Input Select Switch, Volume Control
TSD 24VDC: Power Supply
TSD-RMK: 1 RU Rack Panel

Safety and Certifications
External Power Supply: cUL, CE, RoHS, TUV

Block Diagram