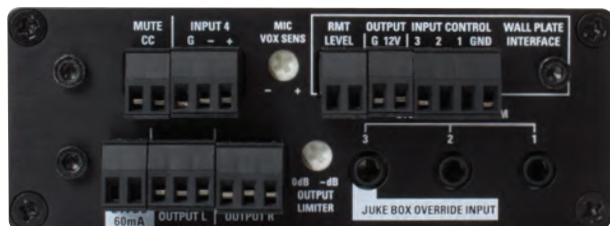




# TSD-MIX42RT

## 4x2 Mic/Line Mixer with Priority Sense and Remote Control



### TSD-MIX42RT

#### 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 24VDC 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

Type Qty 3, Unbalanced  
Connection 3.5mm Stereo  
Impedance 10k $\Omega$   
Input Level 316mV (-10dB) = 2V (+6dBV) Balanced Output, Maximum Input 1.6V (4.1dBV)  
  
Type Qty 1, Balanced Mic or Line Selectable  
Connection Removable 3 Position Captive Screw 3.5mm Spacing  
Impedance 1.2K $\Omega$  Balanced, 600 $\Omega$  Unbalanced  
Phantom 24VDC Defeatable  
Low Cut Filter 125Hz/12dB Defeatable  
Line Input Level 1V (0dBV) Balanced = 2V (+6dBV) Balanced Output, Maximum Input 6V (15dBV)  
Mic Input Level 46dB Gain, 10mV (-40dB) Balanced = 2V (+6dBV) Balanced Output, Maximum Input 40mV (-27dBV)

### Outputs

Type Qty 2, Balanced Line, Left & Right  
Connection Removable 3 Position Captive Screw 3.5mm Spacing  
Impedance 300 $\Omega$  Balanced, 150 $\Omega$  Unbalanced  
Line Output Level 1V (0dBV) In = 2V (+6dBV), Maximum Output 6V (15dBV)

### 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 10k $\Omega$  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-MIX42RT 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

Input Signal Green, 25mV ON Threshold, Qty 1  
Input Peak Red, -3dB Before Clip, Qty 1  
Limiter Red, Limiter Activation, Qty 1  
Power Blue, Qty 1

## Electrical

|                    |                                                  |
|--------------------|--------------------------------------------------|
| Frequency Response | 20Hz - 20kHz ( $\pm 1$ dB)                       |
| THD                | .06% @ 1kHz                                      |
| Signal to Noise    | Line to Line: 85dBV<br>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

|             |                                                |
|-------------|------------------------------------------------|
| WPD-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

