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 Sound

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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 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

Chassis Color Chassis Material

Inputs

Type Connection Impedance Input Level

Type Connection Impedance Phantom Low Cut Filter Line Input Level Mic Input Level

Outputs

ATS004402 RevD 8/13

Type Connection Impedance Line Output Level

Controls

Input Level Control Mute CC VOX Mute Sens Output Limiter Remote Level DC 12V Output Wall Controller Interface

Dip Switch Functions

Dip Switch # 1 Dip Switch # 2 Dip Switch # 3 Dip Switch # 4 Dip Switch # 5 Dip Switch # 6 Dip Switch # 7 Dip Switch # 8 Dip Switch # 9 Dip Switch # 10 Dip Switch # 11 Dip Switch # 12

Indicators

Input Signal Input Peak Limiter Power 4 x 2 Stereo Line Mixer with Priority Sense & Remote Level Black Aluminum Oty 3, Unbalanced 3.5mm Stereo 10kΩ 316mV (-10dB) = 2V (+6dBV) Balanced Output, Maximum Input 1.6V (4.1dBV) Oty 1, Balanced Mic or Line Selectable Removable 3 Position Captive Screw 3.5mm Spacing 1.2KΩ Balanced, 600Ω Unbalanced 24VDC Defeatable 125Hz/12dB Defeatable 1V (0dBV) Balanced = 2V (+6dBV) Balanced Output, Maximum Input 6V (15dBV) 46dB Gain, 10mV (-40dB) Balanced = 2V (+6dBV) Balanced Output, Maximum Input 40mV (-27dBV)

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

Qty 4, Removable Knobs with Security CoversContact Closure, Removable 2 Position Captive Screw 3.5mm SpacingTrim Adjust for Mic SensitivityThreshold AdjustControl Port 10kΩ External Pot, Removable 2 Position Captive Screw 3.5mm Spacing12V DC to power wall controller LED, Removable 2 Position Captive Screw 3.5mm SpacingConnects to optional WPD-MIX42RT wall controller, Removable 4 Position Captive Screw 3.5mm SpacingNote: Juke Box Override will not work when Remote Wall Plate is activated

24VDC Phantom Power Input 4 Mic or Line Select Low Cut Filter 125Hz Juke Box Override Juke Box Override Mute Hold Delay Input 3 Mute Receive Input 2 Mute Receive Input 1 Mute Receive Outputs Left and Right Stereo/Mono Remote Level Master/Inputs 1,2,3 Wall Plate Activation **Note:** Juke Box Override will not work when Remote Wall Plate is activatedt Not Used

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



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Electrical

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

Optional 1 RU Rack Mount Panel (Supports up to 4 TSD Units)

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Output Limiter

Mounting

Velcro Brackets TSD-RMK Cable Retainer

Power

Voltage Power Consumption Current Power Consumption VA Watts

24VDC, 60mA 60mA 1.4W

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

Wall Plate Input Select Switch, Volume Control

Dimensions

Weight

Accessories

WPD-MIX42RT TSD 24VDC TSD-RMK

1 RU Rack Panel

Industrial-Grade, Included

Qty 2, Included

Qty 2, Included

13.4oz, .3kg

Power Supply

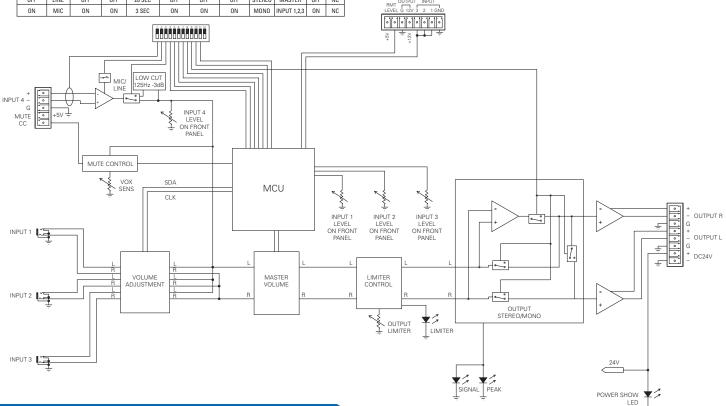
cUL, CE, RoHS, TUV

External Power Supply Block Diagram

Safety and Certifications

DIP SWITCH FUNCTION SET

	2	3	4	5	6	7	8	9	10	11	12
INPUT 4		INPUT 4 125Hz/12dB	INPUT 3	INPUT 3 JUKE	INPUT 3	INPUT 2	INPUT 1	OUTPUT STEREO/	REMOTE	WALL	NC
HANTOM	INPUT 4	LOW CUT	JUKE OR	JUKE MUTE DELAY	MUTE RCV	MUTE RCV	MUTE RCV	MON0	LEVEL	LEVEL PLATE	NC
OFF	LINE	OFF	OFF	20 SEC	OFF	OFF	OFF	STEREO	MASTER	OFF	NC
ON	MIC	ON	ON	3 SEC	ON	ON	ON	MONO	INPUT 1,2,3	ON	NC





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