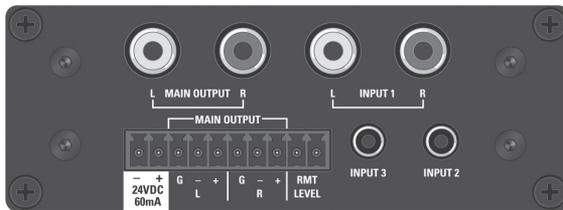




TSD-MIX32RL 3x2 Stereo Line Mixer with Remote Level



1601 Jack McKay Blvd. • Ennis, Texas 75119 U.S.A.
Telephone: 800.876.3333 • Fax: 800.765.3435

Description

The AtlasIED TSD-MIX32RL is a 3x2 stereo line mixer with Remote level control. It is ideal for applications where multiple stereo line sources need to be combined into a preamp utilizing the local or remote Master level control. The unit can be easily interfaced with AtlasIED amplifiers. Applications include restaurants, conference rooms, and schools.

Additional on board EQ can be done utilizing the Base control (100Hz \pm 6db) and Treble control (10KHz \pm 6dB). The TSD-MIX32RL uses high quality, low noise components to ensure clarity and quiet operation without unwanted coloration.

The TSD-MIX32RL is part of a full line of AtlasIED Time Saving Devices. These compact (1.5" x 4" x 2.75") units are designed to solve some of the common audio system problems in the easiest, most efficient, and cost-effective way. All models are made from high quality components and 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 tamper-resistant security covers. The TSDs are highly efficient and meet most energy standards as one 24V DC power supply (available separately) can power multiple Atlas Time Saving Devices.

Features

- Three Stereo Unbalanced Line Inputs, One Set of RCA and Two 3.5mm (1/8")
- Balanced Line Outputs Left & Right
- Unbalanced Line Outputs Left & Right
- Output Peak & Signal Indicator LEDs
- Input Signal Indicator LEDs, Qty 3
- Base & Treble Controls \pm 6dB
- Remote Master Level Control
- 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

- Stereo Mixer
- Source Preamp
- Remote Level Control
- Line Driver

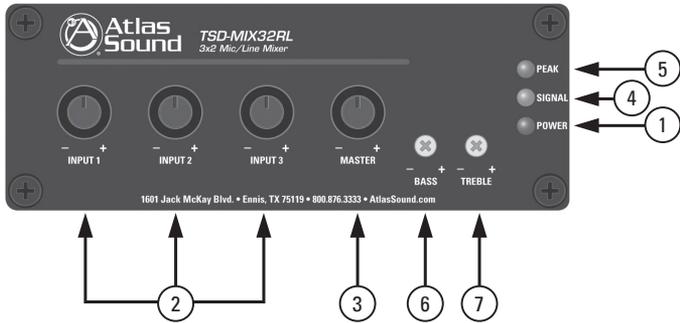
Installation

- Restaurants
- Sports Bars
- Schools
- Industrial Facilities
- House of Worship



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Front Panel Description

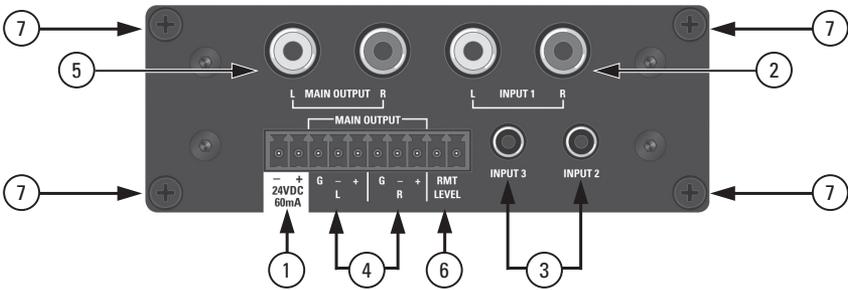


1. **Power LED** - Illuminates Blue when 24VDC power is present.
2. **Inputs 1-3 Level Controls** - Each input has a stereo rotary level control that is independent of the other input controls. Turn clockwise to increase signal and counterclockwise to decrease signal. Each level control has a removable knob that fits onto the shaft. Level adjustments can also be made via the screw driver slot on the potentiometer shaft. **Note:** Each Input has a security cover included with the TSD to prevent tampering.
3. **Mixed output Level Control** - The MIX32RL has a stereo rotary output level control. The level control is the summed signals of the three inputs. Turn clockwise to increase signal and counterclockwise to decrease signal. Each level control has a removable knob that fits onto the shaft. Level adjustments can also be made via the screw driver slot on the potentiometer shaft. **Note:** The Output has a security cover included with the TSD to prevent tampering.
4. **Output Signal LED** - Illuminates Green when there is 25mV of signal present at the output. **Note:** The LED will not illuminate if the Output Level is turned OFF.
5. **Output Peak LED** - Illuminates Red when the output signal reaches -3dBV before signal clipping. An occasional flash is ok, but if the LED is on steadily, reduce the input or output level until the LED is OFF.
6. **Bass Control** - 100Hz \pm 6dB, center point flat.
7. **Treble Control** - 10Hz \pm 6dB, center point flat.



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Rear Panel Description



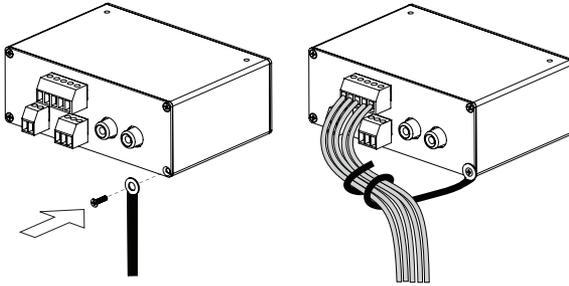
TSD Input/Output connections are removable for easy system wiring. The connectors have a 3.5mm pitch between pins.

1. **DC Power Input** - Each TSD that requires DC power comes with a 2 position connector for an external 24VDC power supply (sold separately). Because of the TSD's low power consumption, a single external power supply may power more than one TSD. Please refer to the specifications on current requirements in milliamps to match with the appropriate power supply. Please observe the polarity of the wiring to this connector. **Note:** It is acceptable to exceed the current requirements of the TSDs but NOT safe to use a power supply that is below the current requirement of the device.
2. **Input 1 RCA Stereo Unbalanced** - Left & right line level input.
3. **Inputs 2 & 3 Stereo Unbalanced 3.5mm (1/8")** - Left & right line level input.
4. **Left & Right Balanced Line Outputs** - Balanced line level signals are to be connected to the proper terminals. The connections between devices must be mated properly to the input connectors or signal loss and/or noise may be introduced. **Note:** Unbalanced line level inputs can be inserted by using the following wire configuration: Tie (short) the (G) and (-) terminals together.
5. **Main Output RCA** - Left & right unbalanced line outputs.
6. **Remote Level** - For remote gain control, connect the AtlasIED AAVC-10K (or equal) wall plate to these terminals. Distance can be up to 200 ft.
7. **Cable Management Retainer Points** - Each TSD includes two cable retainer straps for securing the included cable management retainers. Remove one of the rear panel screws, align the panel hole with a retainer and firmly tighten the screws.



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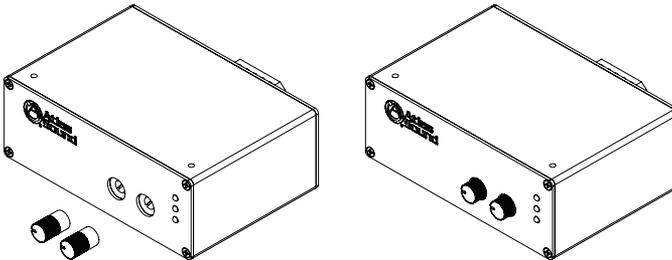
Cable Management



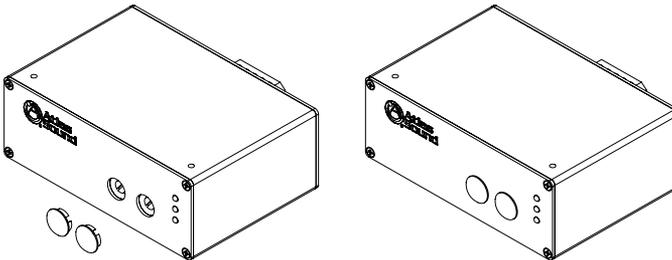
Knob and Security Cover

All front panel level controls feature a removable knob that can be replaced with an included security cover. Follow these steps to prevent potentiometer damage or unwanted changes.

1. Knob Installation - Turn the potentiometer shaft fully counter-clockwise. Align the knob indicator to the lowest setting on the panel and the potentiometer shaft slot. Carefully press the knob onto the potentiometer shaft. Do not force or damage may occur to the potentiometer.



2. Security Cover Installation - Remove the knob from the panel and insert the cover. Small pliers may be required to remove the knobs. Align the security cover to the level control panel hole. Push the cover into the hole until it snaps into place. Do not force or damage may occur to the potentiometer.

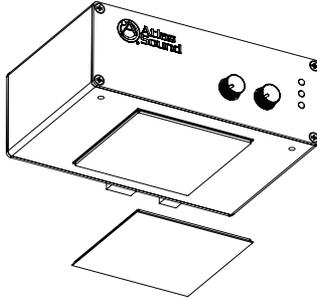


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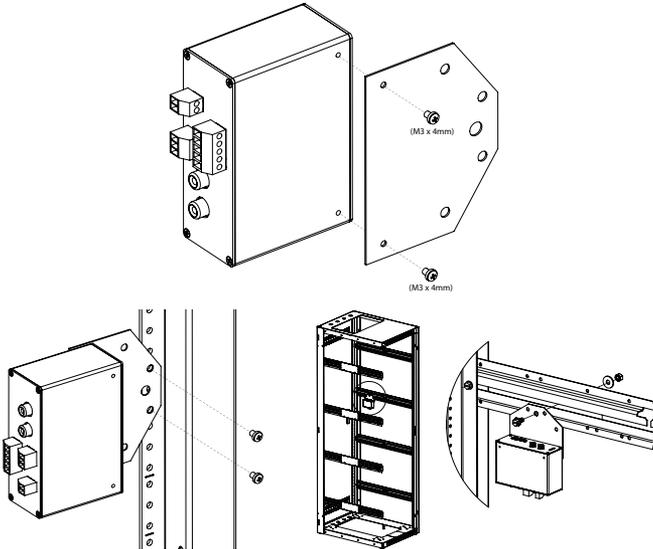
Mounting

Listed below are the ways to mount the TSD and the optional accessories that can be purchased.

1. Velcro™ - Each unit includes two 2" x 2" pieces of industrial-grade Velcro™ with adhesive backing to adhere to any flat surface. Clean all surfaces before applying the adhesive side of the Velcro™.



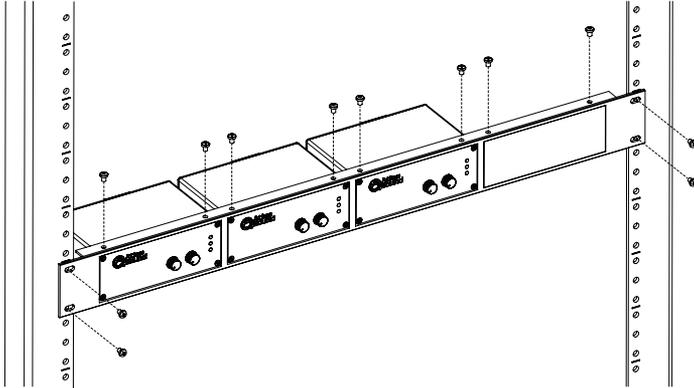
2. Multi Mount Plate - Each TSD includes a versatile multi-position mounting plate. This plate allows the TSD to be mounted to any surface; but is ideal for use with rear rack rails or side rack hat channels. Use the included M3 x 4mm screws to install the plate on the TSD. **Note:** Only use the included M3 x 4mm screws as other screws may be too long and will cause internal damage to the TSD. The multi-position mounting plate is a new addition being included with TSDs. If the TSD being used did not include the mounting plate, contact AtlasIED customer service at 1-800-876-3333.



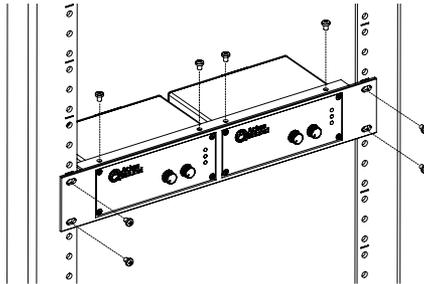
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Optional Mounting Accessories

1. TSD-RMK 19" Width Rack Mount Kit - For 19" rack mounting, AtlasIED offers an optional rack mount kit, the TSD-RMK. This rack mount kit can support up to four TSD units. The kit includes three blank panels designed to fill any unused slots. Use the included hardware to mount the TSD into the rack mount kit using the top mount screw holes on the TSD.

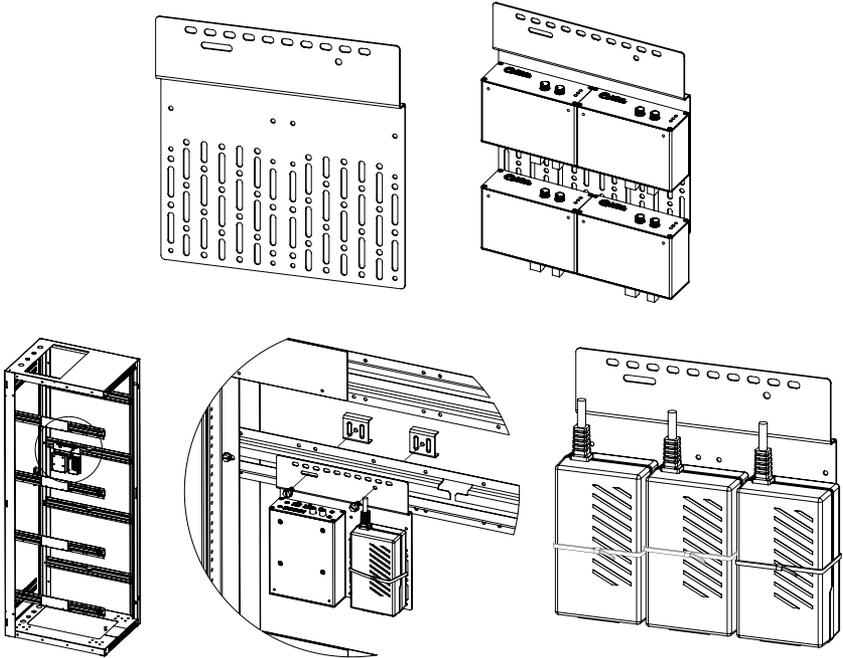


2. TSD-RMKHR Half Width Rack Mount Kit - AtlasIED offers an optional rack mount kit that can be used in half width rack applications including the AtlasIED WMA-HR and AWR-HR models. The TSD-RMKHR can support up to two TSDs. Included is an extra blank panel to fill one of the spaces if only one TSD is being used.

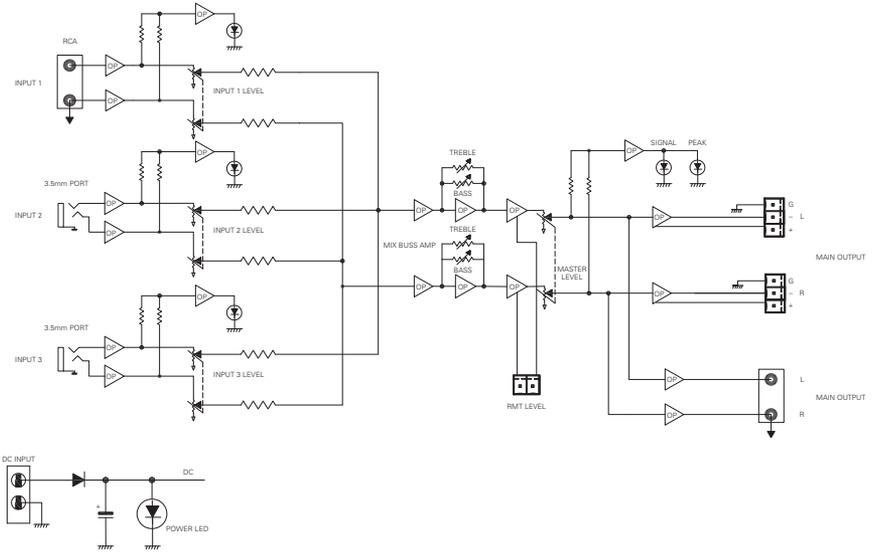


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3. TSD-RRMK Rear Rack Mounting Kit - For complete flexibility in mounting a TSD or TSD external power supplies the optional TSD-RRMK is available. The TSD-RRMK can support mounting of either two larger TSDs with external power supplies or up to 4 TSD models. **Note:** Only use the included M3 x 4mm screws as other screws may be too long and will cause internal damage to the TSD.



Block Diagram



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Specifications

Description	3 x 2 Stereo Line Mixer with Remote Level
Chassis Color	Black
Chassis Material	Aluminum
Inputs	
Type	Qty 1, Unbalanced RCA Left & Right
Type	Qty 2, Unbalanced 3.5mm Stereo
Impedance	10k Ω Balanced
Unbalanced Line Input	300mV (-10dB) = 1.5V (3dBV) Output
Maximum Input	1.5V (3dBV)
Outputs	
Type	Qty 2, Balanced Line
Connection	Removable 3 Position Captive Screw 3.5mm Spacing
Impedance	300 Ω Balanced, 150 Ω Unbalanced
Maximum Output Balanced	5V (14dBV)
Type	Qty 2, RCA Unbalanced Line
Impedance	150 Ω Unbalanced
Unbalanced Line Output	300mV (-10dB) = 1.5V (3dBV) Output
Maximum Output Unbalanced	5V (14dBV)
Controls	
Input Level Control	Qty 3, Removable Knobs with Security Covers
Output Level Control	Qty 1, Removable Knob with Security Cover
Bass Trim	Front Panel (recessed) \pm 6dB 100Hz
Treble Trim	Front Panel (recessed) \pm 6dB 10kHz
Indicators	
Input Signal	Green, 25mV ON Threshold, Qty 3
Output Signal	Green, 25mV ON Threshold, Qty 1
Output Peak	Red, -3dB Before Clip, Qty 1
Power	Blue, Qty 1
Electrical	
Frequency Response	20Hz - 20kHz (\pm 1dB)
THD	.06% @ 1kHz
Signal to Noise	Line to Line: 85dBV
Power Requirements	
Voltage	24VDC, 60mA
Power Consumption Current	60mA
Power Consumption VA Watts	1.4W
Dimensions	H 1.5" (39mm) x W 4" (101mm) x D 2.75" (70mm)
Weight	6oz, .165kg



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Included Accessories

Velcro™	Industrial-Grade
Multi-Mount Plate	Qty 1, Includes Two (2) M3 x 4mm Screws
Cable Retainers	Qty 2
Level Control Knobs	Qty 4
Level Control Security Covers	Qty 4

Optional Accessories

TSD 24VDC	Power Supply
TSD-RMK	1 RU 19" Width Rack Mount Panel (Supports 4 TSD Units)
TSD-RMKHR	1 RU Half Rack Width Panel (Supports 2 TSD Units)
TSD-RRMK	Rear Rack Mounting Kit

Safety and Certifications

External Power Supply	cUL, CE, RoHS, TUV
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Limited Warranty

All products manufactured by AtlasIED are warranted to the original dealer/installer, industrial or commercial purchaser to be free from defects in material and workmanship and to be in compliance with our published specifications, if any. This warranty shall extend from the date of purchase for a period of three years on all AtlasIED products, including SOUNDOLIER brand, and ATLAS SOUND brand products except as follows: one year on electronics and control systems; one year on replacement parts; and one year on Musician Series stands and related accessories. Additionally, fuses and lamps carry no warranty. AtlasIED will solely at its discretion, replace at no charge or repair free of charge defective parts or products when the product has been applied and used in accordance with our published operation and installation instructions. We will not be responsible for defects caused by improper storage, misuse (including failure to provide reasonable and necessary maintenance), accident, abnormal atmospheres, water immersion, lightning discharge, or malfunctions when products have been modified or operated in excess of rated power, altered, serviced or installed in other than a workman like manner. The original sales invoice should be retained as evidence of purchase under the terms of this warranty. All warranty returns must comply with our returns policy set forth below. When products returned to AtlasIED do not qualify for repair or replacement under our warranty, repairs may be performed at prevailing costs for material and labor unless there is included with the returned product(s) a written request for an estimate of repair costs before any nonwarranty work is performed. In the event of replacement or upon completion of repairs, return shipment will be made with the transportation charges collect.

EXCEPT TO THE EXTENT THAT APPLICABLE LAW PREVENTS THE LIMITATION OF CONSEQUENTIAL DAMAGES FOR PERSONAL INJURY, ATLASIED SHALL NOT BE LIABLE IN TORT OR CONTRACT FOR ANY DIRECT, CONSEQUENTIAL OR INCIDENTAL LOSS OR DAMAGE ARISING OUT OF THE INSTALLATION, USE OR INABILITY TO USE THE PRODUCTS. THE ABOVE WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

AtlasIED does not assume, or does it authorize any other person to assume or extend on its behalf, any other warranty, obligation, or liability. This warranty gives you specific legal rights and you may have other rights which vary from state to state.

Service

Should your Atlas TSD require service, please contact the AtlasIED warranty department at 1-877-689-8055, ext. 277 to obtain an RA number.

AtlasIED Tech Support can be reached at 1-800-876-3333 or support.atlasied.com.

Visit our website at www.AtlasIED.com to see other Atlas products.

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