



TSD-HF11

Paging Horn Crossover & Limiter



TSD-HF11

Features

- Selectable Hi-Pass and Lo-Pass Filter
- Balance and Unbalance Inputs
- Input and Output Trim Controls
- Variable Limiter
- Security Covers Included for All Front Panel Controls
- Output Signal, Peak & Limit Indicator LEDs
- Removable Phoenix Style I/O Connectors
- Power Supply Sold Separately
- Optional Rack Mount Kit – TDS-RMK
- Optional Half Rack Mount Kit – TDS-HRMK
- Optional Rear Rack Mount Kit – TDS-RRMK

Audio Applications

The TSD-HF11 is designed to be used in conjunction with paging horns in applications where the horn is used for both paging and background music. The TSD-HF11 protects the horn driver from damaging low frequency signals often found in vocals or music.

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 it versatile and user friendly. The TSD design mandate was to make the installation quick and reliable, saving you valuable time and money. Each model is housed in a compact 1.5" x 4" x 2.75" 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 TSD-HF11 is specifically designed use with paging horns in applications where band pass filter and power limiting are required. The TSD-HF11 has a 1 Input and 1 Output configuration and includes Input and Output trim controls, selectable Hi-Pass filter, and a variable limiter to prevent excess signal from entering the amplifier. The TSD-HF11 can be used with a variety of paging horns and amplifiers as its full feature set allows individualized customization based on system requirements.

Installation

- Schools
- Stadiums
- Arenas
- Recreation Centers
- Raceways

©2015 Atlas Sound L.P. All rights reserved. Atlas Sound is a trademark of Atlas Sound L.P. All other trademarks are the property of their respective owners. ATSO05247 7/15

Specifications

| | |
|------------------|--|
| Description | 1 x 1 Paging Horn Crossover and Limiter |
| Chassis Color | Black |
| Chassis Material | Aluminum |
| Inputs | |
| Type | Qty 1, Unbalanced |
| Connection | RCA |
| Impedance | 10k Ω |
| Input Level | 316mV (-10dBV) = 1V (0dBV) Unbalanced RCA Output, Maximum Input 3V (9.5dBV) |
| Type | |
| Type | Qty 1, Balanced Line |
| Connection | Removable 3 Position Captive Screw 3.5mm Spacing |
| Impedance | 10k Ω Balanced |
| Line Input Level | 1V (0dBV) Balanced = 2V (+6dBV) Balanced Output, Maximum Input 6V (15.5dBV) |

Outputs

| | |
|------------------|---|
| Type | Qty 1, Unbalanced |
| Connection | RCA |
| Impedance | 150 Ω |
| Input Level | 316mV (-10dBV) RCA Input = 1V (0dBV) RCA Output, Maximum Output 7V (16.9dBV) |
| Type | |
| Type | Qty 1, Balanced Line |
| Connection | Removable 3 Position Captive Screw 3.5mm Spacing |
| Impedance | 300 Ω Balanced |
| Line Input Level | 1V (0dBV) Balanced Input = 2V (+6dBV) Balanced Output, Maximum Output 12.5V (17dBV) |

Controls

| | |
|----------------------|--|
| Input Level Control | Qty 1, Removable Knob with Security Cover |
| Output Level Control | Qty 1, Removable Knob with Security Cover |
| Input Limiter | Threshold Adjust |

Dip Switch Function

| | |
|----------------|---------------------|
| Dip Switch # 1 | 200Hz Hi Cut / 18dB |
| Dip Switch # 2 | 300Hz Hi Cut / 18dB |
| Dip Switch # 3 | 400Hz Hi Cut / 18dB |
| Dip Switch # 4 | All Pass |

Indicators

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

Electrical

| | |
|--------------------|---|
| Frequency Response | Related to Dip Switch Settings, All References -3dB, Filters 18dB per Octave |
| | <ul style="list-style-type: none">• 200Hz - 15KHz• 300Hz - 15KHz• 400Hz - 15KHz• All Pass - 20Hz - 15KHz |
| THD | .06% @ 1kHz |
| Noise, Maximum | 450uV (-99dBV) |
| Input Limiter | Hard Limiter Potentiometer Position |
| | <ul style="list-style-type: none">• FCCW 0dB = 0dB• 12 O'clock = - 4dB +/-1dB• FCW -dB = -8dB |

Power Requirements

| | |
|----------------------------|--|
| Voltage | 24VDC, 35mA, Removable 2 Position Phoenix |
| Power Consumption VA Watts | 1.6W |
| Dimensions | 1.5" (39mm) x 4" (101mm) x 2.5" (70mm) |
| Weight | 6oz, .165kg |

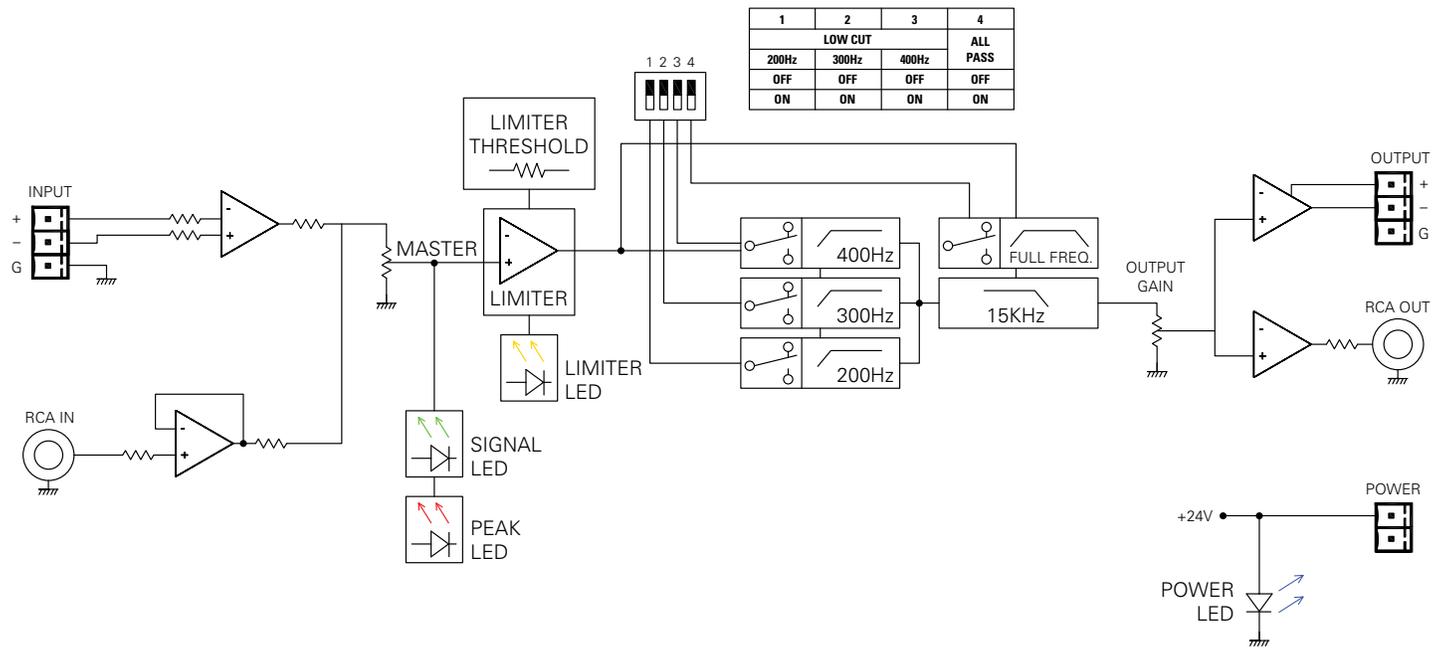
Included Accessories

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

Safety and Certifications

| | |
|-----------------------|--------------------|
| External Power Supply | cUL, CE, RoHS, TUV |
|-----------------------|--------------------|

Block Diagram



©2015 Atlas Sound L.P. All rights reserved. Atlas Sound is a trademark of Atlas Sound L.P. All other trademarks are the property of their respective owners. ATSO05247 7/15