

FSR

IT-A25 SERIES

AUDIO AMPLIFIERS

(COVERS MODELS IT-A25-M70 AND IT-A25-S8)

INSTALLATION AND OPERATING GUIDE



PROPRIETARY INFORMATION

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Operators Safety Summary

The general safety information in this summary is for operating personnel.

Read Instructions Read and understand all safety and operating instructions before using this equipment. Keep the instructions handy.

Do Not Remove Covers or Panels There are no user-serviceable parts within the unit. Removal of the top cover will expose dangerous voltages. To avoid personal injury, do not remove the top cover. Do not operate the unit without the cover installed.

Power Source This product is intended to operate from the specified wall plug-in transformer. Do not use any other power source.

Use the Proper Power Cord Use only the power cord and connector specified for your product. Use only a power cord that is in good condition. Refer cord and connector changes to qualified service personnel.

Do Not Operate in Explosive Atmospheres To avoid explosion, do not operate this product in an explosive atmosphere.

INTRODUCTION

The IT-A25 Series Amplifiers are the latest addition to FSR's Intellitools family. They are designed to deliver great performance and versatility at an affordable price. Perfect for small venue audio power applications.

Both models support Pro and consumer audio input levels; The IT-A25-M70 Mono Amp provides either a 4-8 ohm speaker output or a 70 V line output at 25W RMS. The IT-A25 Stereo Amp delivers a 25W output at 8 ohms and can be bridged to drive a 4 ohm load at 50 watts.

FEATURES

- Signal Sense trigger for sleep & wake up
- Music and alarm muting capability
- Optional mounts available
- External Power Supply included
- Clean full-range power

APPLICATIONS

- Boardrooms • Houses of Worship • Control Rooms
- Classrooms • Staging and Rental • Libraries

ACCESSORIES

- RK-1 Rack mounting kit
- RK-2 Rack mounting shelf

INSTALLATION AND OPERATION

Mount the units as appropriate for the particular installation.

There are #6-32` tapped holes on the top and bottom of the IT-A25 series housings for mounting. Use #6-32 screws that protrude through no longer than 1/2". There are also rack kits available from FSR for mounting in a standard 19” rack mount. See “accessories” section for FSR part numbers and ordering information.

FRONT PANEL LED STATUS INDICATION	
ON OFF STANDBY	On/Standby: Green indicates the amplifier is active. Amber indicates the amplifier is powered, but in Standby mode drawing minimal current.
CLIP	When lit this led indicates the amplifier is approaching the onset of clipping.

REAR PANEL

Mute Switch Input:

Provide a dry contact or low leakage open collector closure to mute the amplifier. No connection, or an open circuit provides for normal operation. The IT-A25 amplifier provides pop-free transitions in and out of mute mode.

Audio Input:

NOTE: See Option DIP Switch table for proper settings and additional information.

Connect a balanced or unbalanced audio source to this point. Unbalanced signals should be connected between “Hi” and “Lo.”

For IT-A25-M70 only:

Connect mono sources to the LEFT audio input terminals

For IT-A25-S8 only:

Connect mono sources to the RIGHT or LEFT audio input terminals.

Master Gain control:

Provides a wide range volume control to adapt to audio source. CW screwdriver or finger adjust to increase gain.

Audio Out:

For IT-A25-M70 only:

Provides a choice of either 4-8 ohm or 70 volt mono output for flexibility in interfacing to the room speakers. Connections should be made to only one output type in a particular installation.

For IT-A25-S8 only:

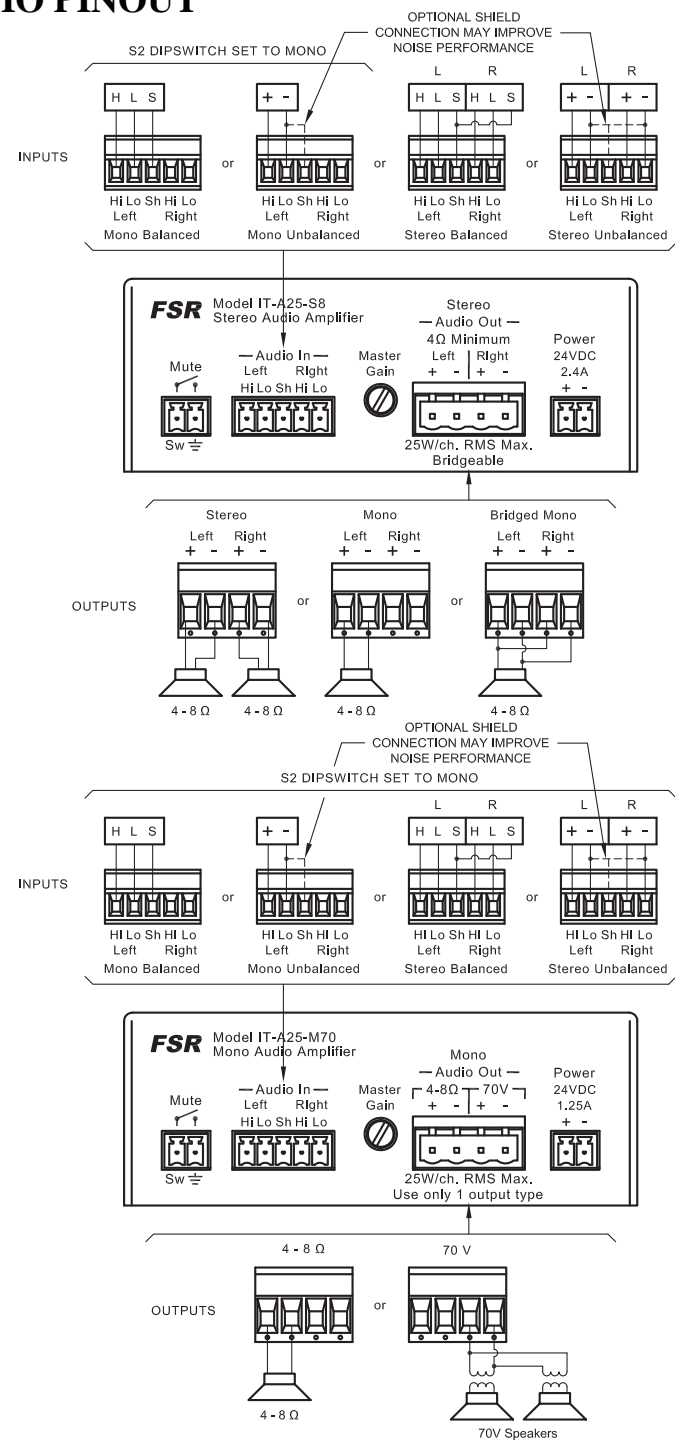
Provides connection to 4-8 ohm stereo speakers. Outputs may be bridged (connect + to + and connect - to - When bridging, be sure to set front panel switch 2 to “mono” mode) to double the output power. Use 4 ohm speaker, or parallel combination of 8 ohm speaker to achieve full power when bridging outputs.

Power Input:

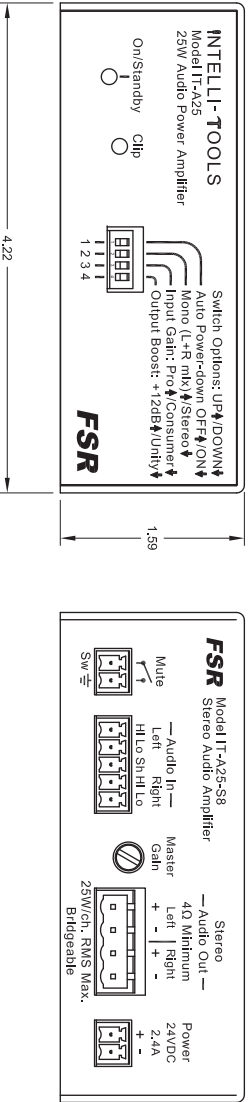
Connect to supplied 24 volt external power supply.

OPTION DIP SWITCHES	
AUTO POWER-DOWN SWITCH 1	<p>Down=ON=Auto Power-down function enabled,</p> <p>UP=OFF=Auto Power-down function disabled. This switch is used to override the Auto Power-down feature of the amplifier and unconditionally force the amplifier to the on state.</p>
MONO/STEREO SWITCH 2	<p>Down=Stereo, Up=Mono. When in Mono mode, the Left and Right audio inputs are actively summed together and fed to both the Left and Right output channels.</p> <p>When in stereo mode, Left and Right inputs are independent.</p> <p>NOTE: The IT-A25-M70 mono version of the product requires this switch to be set to mono mode when using stereo sources.</p> <p>When operating the IT-A25-S8 in bridged output mode, this switch should also be set to mono mode.</p>
INPUT GAIN SWITCH 3	<p>Up=Professional Audio input levels,</p> <p>Down=Consumer Audio input levels.</p> <p>When down, this switch provides an additional 12 dB of input boost to accommodate the lower signal levels of consumer electronic equipment.</p> <p>When up, this switch accommodates the higher signal levels provided by professional AV mixers.</p>
OUTPUT BOOST SWITCH 4	<p>Up= +12dB,</p> <p>Down= Unity. When up, this switch provides an additional 12 dB of gain to provide additional flexibility.</p>

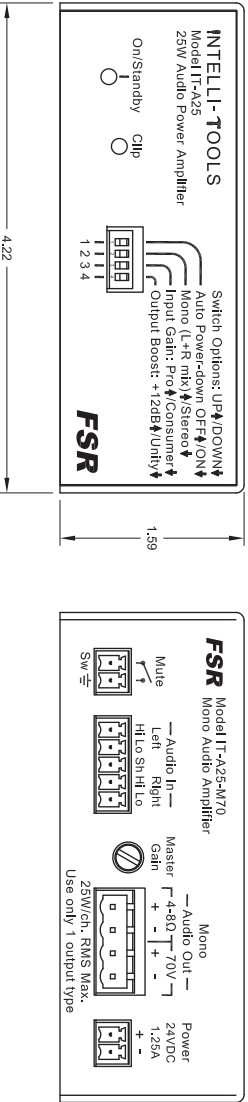
AUDIO PINOUT



DIMENSIONS



Depth is 6.75" on both models. Allow clearance for connectors and cables.



TECHNICAL SPECIFICATIONS

AUDIO INPUT	IT-A25-M70	IT-A25-S8
Number of Inputs	1, Stereo balanced	
Connector	5 position pluggable screw terminal	
Maximum Input Level	7 Vrms, +16.9dBV balanced/unbalanced	
Input Impedance	20kΩ balanced/unbalanced	
Input Signal Detection Threshold (for Auto Power Down)	10mVrms, -40dBV	

AUDIO OUTPUT	IT-A25-M70	IT-A25-S8
Connector	2 position pluggable screw terminal	4 position pluggable screw terminal
Power Output	25Wrms @ 70V 25Wrms @ 4 to 8Ω	25Wrms x 2 @ 4 to 8Ω
Signal Output	Mono	Stereo, 2 Mono, Bridgeable in Mono mode
Load Impedance	4 to 8Ω or 70V	4 to 8Ω
THD+Noise	0.1% @ 10KHz, 10W 70V Output	0.5% @ 1KHz, 25W 8Ω
Frequency Response	100Hz-20KHz, +0, -1dB; -3dB @ 50Hz	20Hz-20kHz, +0, -1dB
Signal to Noise Ratio	>97dB @ 70V, 100Hz-20KHz, un-weighted	>90dB @ 25W 8Ω, 20Hz-20KHz, Un-weighted

CONTROL ADJUSTMENTS	IT-A25-M70	IT-A25-S8
Control Switch	<ul style="list-style-type: none"> • Auto Power Down • Stereo/Mono (L+R sum) • Pro/Consumer (+12dB) • Unity/+12dB Gain 	
Remote Muting Input	Dry contact closure required	
Master Volume	✓	✓
FEATURES	IT-A25-M70	IT-A25-S8
Auto Power Down	✓	✓
Clip Indicator	✓	✓
Output short circuit protection	✓	✓
Bridgeable Output		✓
Power up/down click and Pop suppressor	✓	✓

POWER REQUIREMENTS	IT-A25-M70	IT-A25-S8
External power supply	100-240VAC	100-240VAC
Power input requirement	24V DC @ 1.2A	24V DC @ 2.4A
Power Consumption@ Full Output	≤ 28W	≤ 58W
Standby Power	≤ 1W	
Idle Power	≤ 3.5W	

MECHANICAL	Model	Dimensions (inches)	Shipping weight lbs.
	IT-A25-M70	6.75 x 4.22 x 1.59	2.5
	IT-A25-S8		1.5

GENERAL	IT-A25-M70	IT-A25-S8
LED Indicators	<ul style="list-style-type: none"> • Power On • Standby • Clip Indicator 	
Operating Temperature	0° C to 40° C	
Cooling	Convection cooled	
Enclosure Material	Metal	
Turn on time from Auto Power Down (typical)	25ms	
Time to enter Mute state (typical)	<1ms	
Time to exit Mute state (typical)	30ms	
Amplifier Class	D	

REGULATORY COMPLIANCE

The Power Adapter has been tested for compliance with: UL, CSA and CE.

WARRANTY POLICY

This product is warranted against failures due to defective parts or faulty workmanship for a period of three years after delivery to the original owner. During this period, FSR will make any necessary repairs or replace the unit without charge for parts or labor. Shipping charges to the factory or repair station must be prepaid by the owner, return-shipping charges, via UPS / FedEx ground, will be paid by FSR.

This warranty applies only to the original owner and is not transferable. In addition, it does not apply to repairs done by other than the FSR factory or Authorized Repair Stations.

This warranty shall be cancelable by FSR at its sole discretion if the unit has been subjected to physical abuse or has been modified in any way without written authorization from FSR. FSR's liability under this warranty is limited to repair or replacement of the defective unit.

FSR will not be responsible for incidental or consequential damages resulting from the use or misuse of its products. Some states do not allow the exclusion of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Warranty claims should be accompanied by a copy of the original purchase invoice showing the purchase date (if a Warranty Registration Card was mailed in at the time of purchase, this is not necessary). Before returning any equipment for repair, please read the important information on service below.

SERVICE

Before returning any equipment for repair, please be sure that it is adequately packed and cushioned against damage in shipment, and that it is insured. We suggest that you save the original packaging and use it to ship the product for servicing. Also, please enclose a note giving your name, address, phone number and a description of the problem.

NOTE: All equipment being returned for repair must have a Return Authorization (RMA)

Number. To get a RMA Number, please call:

FSR Service Department (973-785-4347).

Please display your RMA Number prominently on the front of all packages.

Contact Information:

FSR Inc.

244 Bergen Boulevard,
Woodland Park, NJ 07424

Tel: (973) 785-4347 · Fax: (973) 785-4207

E-Mail: sales@fsrinc.com · Web: <http://www.fsrinc.com>