Example of Mixer Using WPD-MIX42RT to Remote Select Audio Sources with Paging in a 70V Mono System

DIP SWITCH SETTINGS:

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TSD-MIX42RT

SET DIP SWITCHES

PA1001G
70V AMPLIFIER

LINE COLOR KEY
- Line Level Audio Signal
- Loudspeaker Level
- Control Signal
- Mic Level Audio Signal
- Video
- Ground
- 120V

1 2 3 4 5 6 7 8 9 10 11 12
INPUT 4 INPUT 4 INPUT 4 INPUT 3 INPUT 3 INPUT 3 INPUT 2 INPUT 1 OUTPUT STEREO MONO REMOTE LEVEL WALL PLATE NC
PHANTOM LOW CUT JUKE ON DELAY MUTE RCV MUTE RCV MUTE RCV NC
OFF LINE OFF OFF 3 SEC OFF OFF STEREO MASTER OFF NC

PAGING MIC
MUTE BUTTON

EASY TO CREATE YOUR OWN LABELING

WPD-MIX42RT ROOM CONTROLLER
THE WPD-MIX42RT ALLOWS REMOTE SOURCE SELECTION AND VOLUME CONTROL WITH POWER-ON INDICATOR. IT CAN BE PLACED UP TO 200FT AWAY. NOTE: JUKE BOX OVERRIDE IS DISABLED WHEN WALL PLATE IS ACTIVATED.

1 2 3
TV1-AUDIO SAT RECEIVER
TV2-AUDIO SAT RECEIVER
MUSIC MEDIA PLAYER

EASY TO CREATE YOUR OWN LABELING

LINE COLOR KEY
- Line Level Audio Signal
- Loudspeaker Level
- Control Signal
- Mic Level Audio Signal
- Video
- Ground
- 120V

AUDIO SOURCES

FAP62T
70V CEILING SPEAKERS

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

AtlasSound.com

Specifications are subject to change without notice.
Overview:
This example illustrates how to add a WPD-MIX42RT wall plate source selector to a TSD-MIX42RT in a 3 Stereo Input source mixer system with a paging Mic.

Application Example Description:
In this example, the TSD-MIX42RT is configured to mix between 3 stereo audio sources including two satellite TV receivers and one Music Media Player. Adding a WPD-MIX42RT wall plate controller allows selection between the 3 sources from a remote location (up to 200ft away) with master volume control. A paging Mic is configured to take priority over all 3 sources if needed for security or an emergency announcement.

Benefits:
• Cost Effective Solution
• Stereo or Mono Applications
• Mic Input with Phantom and Low Cut Filter
• Priority Override Assignment
• Selectable Override Release Times
• Trigger Accepts Analog Audio
• Adjustable Output Limiter

Application Example Notes:
1. Input 3 override is disabled when WPD-MIX42RT is activated (DIP switch 11 is set to ON).

2. A condenser (phantom powered) Paging Mic is connected to balanced Input 4 and appropriate DIP switch settings 1, 2, and 3 are set to ON.
   • DIP switch 3 provides a high pass (low cut) filter to improve the microphone sound and reduce low-end feedback.
   • Adjust the VOX sensitivity until the Paging Mic announcements automatically mute all Mute RCV assigned inputs.
   • The paging Mic base has a built-in mute switch connected to the remote CC (contact closure) pins. When the mute switch is pressed, all music channels will mute.
   • Balanced Input 4 can also be configured to Line Level (DIP switch 2) for a pre-recorded Fire Alert message. For this Safety application set Mute RCV 1, 2, and 3 to ON (DIP switch 6, 7, and 8).

3. Set the Output Limiter so a normal speaking voice barely causes the limiter to start working (Limiter LED blinks occasionally).
   • Loud speaking voices should cause the limiter to engage on peaks not all the time. This causes the loudest peaks of the announcements to be leveled out so the Mic can be set louder than the music while still providing speaker protection.

4. In this example, a mono 70V speaker system is shown. DIP switch 9 sums the stereo Inputs for a mono output. See other TSD-MIX42RT applications for an example of a stereo system.