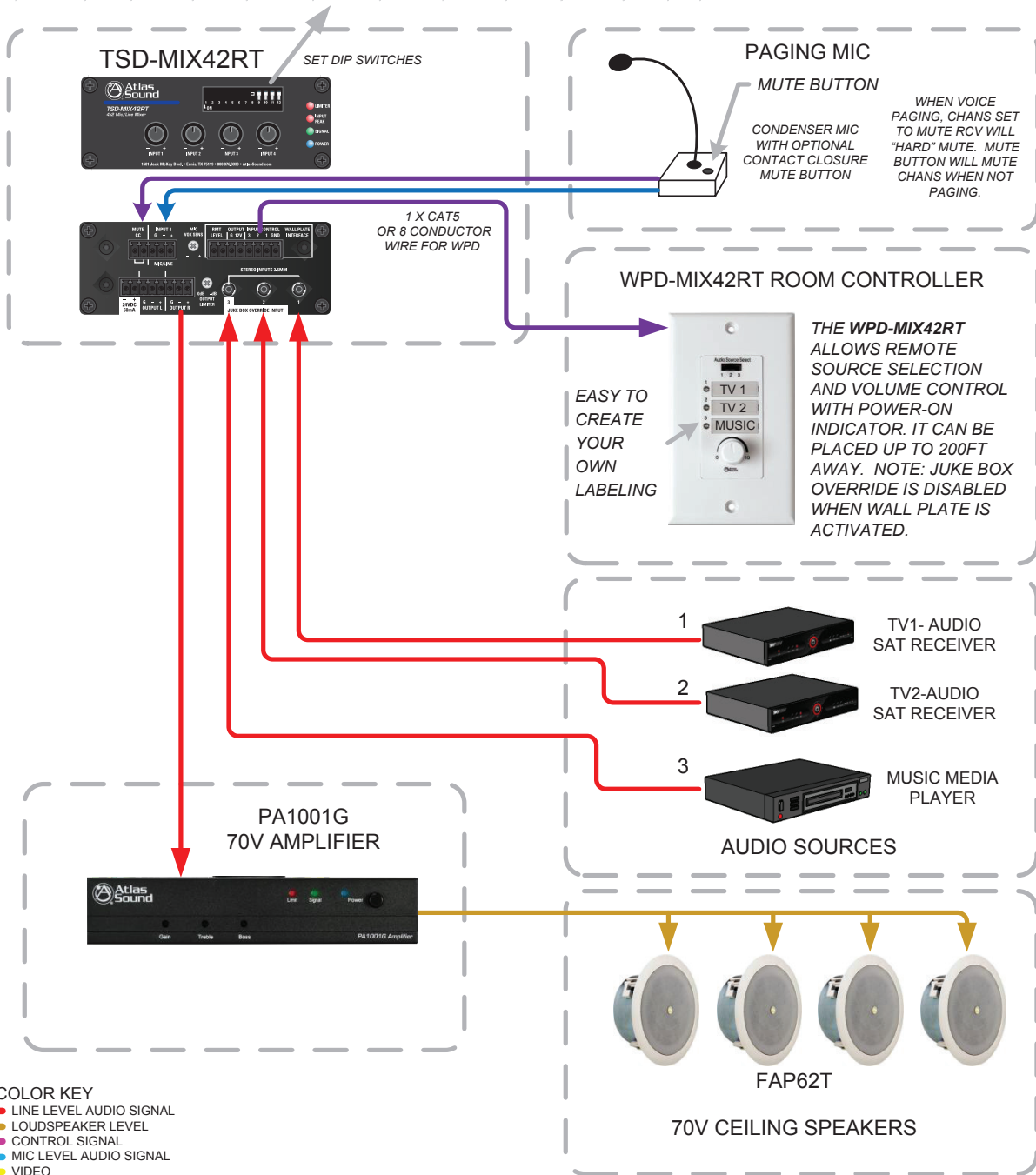




**Example of Mixer Using WPD-MIX42RT to Remote Select Audio Sources with Paging in a 70V Mono System**

DIP SWITCH SETTINGS:

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



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## 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.



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