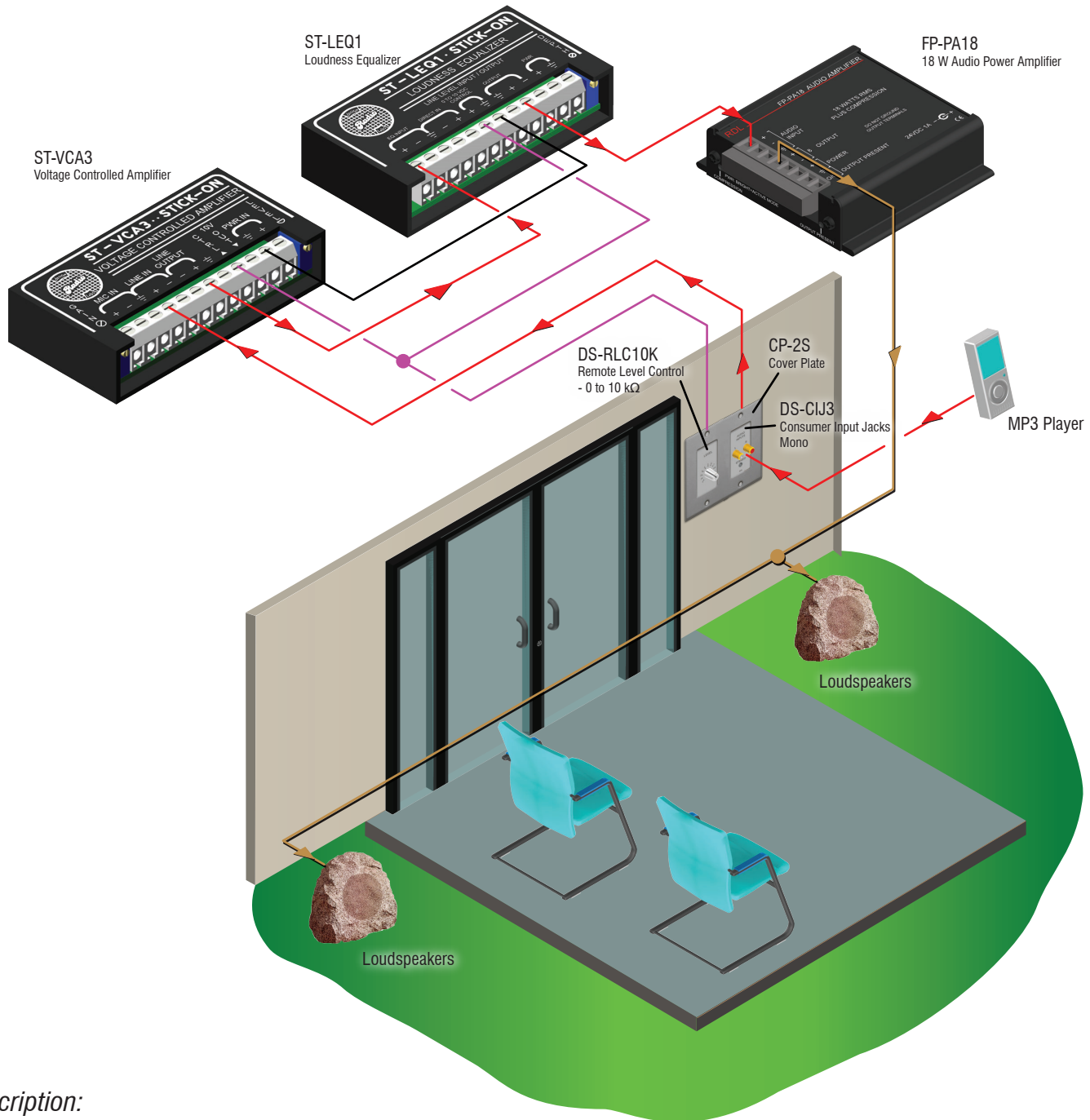


AUTOMATIC LOUDNESS EQUALIZER

Improves Sonic Fullness at Low Listening Levels



Description:

An unbalanced stereo audio signal (RCA jacks or Mini-jack) from an external source (MP3 shown) is summed and converted to balanced mono using the DS-CIJ3 Consumer Input Jack plate. An RDL FP-PA18 18 Watt Audio Power Amplifier feeds outdoor loudspeakers in the patio seating area. In the absence of an audio input, a digital timer within the FP-PA18 is enabled to switch the class D output stage off. When this sleep mode is active, the amplifier module and its included RDL power supply consume less than 1 W of mains power.

The wall-mounted DS-RLC10K Remote Control allows users to adjust the audio level on the patio. The DS-RLC10K controls the ST-VCA3 Voltage Controlled Amplifier which sets the audio input level to the power amplifier and also controls the loudness equalization through the ST-LEQ1. As the volume is turned down on the DS-RLC10K, the ST-LEQ1 increases the bass frequencies. As the listening level is increased by the remote control, the loudness equalization is progressively decreased until the audio is flat at higher listening levels. The DIRECT INPUT on the ST-LEQ1 is intended for a paging signal input which will always be the same level regardless of the setting on the remote volume control.

Parts List	
Product	QTY
CP-2S	1
DS-CIJ3	1
DS-RLC10K	1
FP-PA18	1
ST-LEQ1	1
ST-VCA3	1

Recommended Pwr. Supplies	
Product	QTY
FP-PA18H Power Supply	1, included
PS-24V2A 24 Vdc 2 A	1

Line Color Key	
—	Line Level Audio Signal
—	Loudspeaker Level
—	Control Signal
—	Video
—	Mic Level Audio Signal
—	Ground
—	Power
—	Miscellaneous