

## NEED A COMPLETE SOUND SYSTEM?

(copyright 2016 by Bruce Bartlett)

Here are suggestions for a complete theater sound system. The components listed here are affordable and compatible with each other.

**A simple system uses a powered mixer.** One is the Peavey PVi 6500 for \$399 from [sweetwater.com](https://www.sweetwater.com/store/detail/PVi6500--peavey-pvi-6500-6-channel-400w-powered-mixer).  
<https://www.sweetwater.com/store/detail/PVi6500--peavey-pvi-6500-6-channel-400w-powered-mixer>



**A complete sound system would be:**

**Floor mics > long mic cables > powered mixer > long speaker cables > speakers on stands (2 needed).**

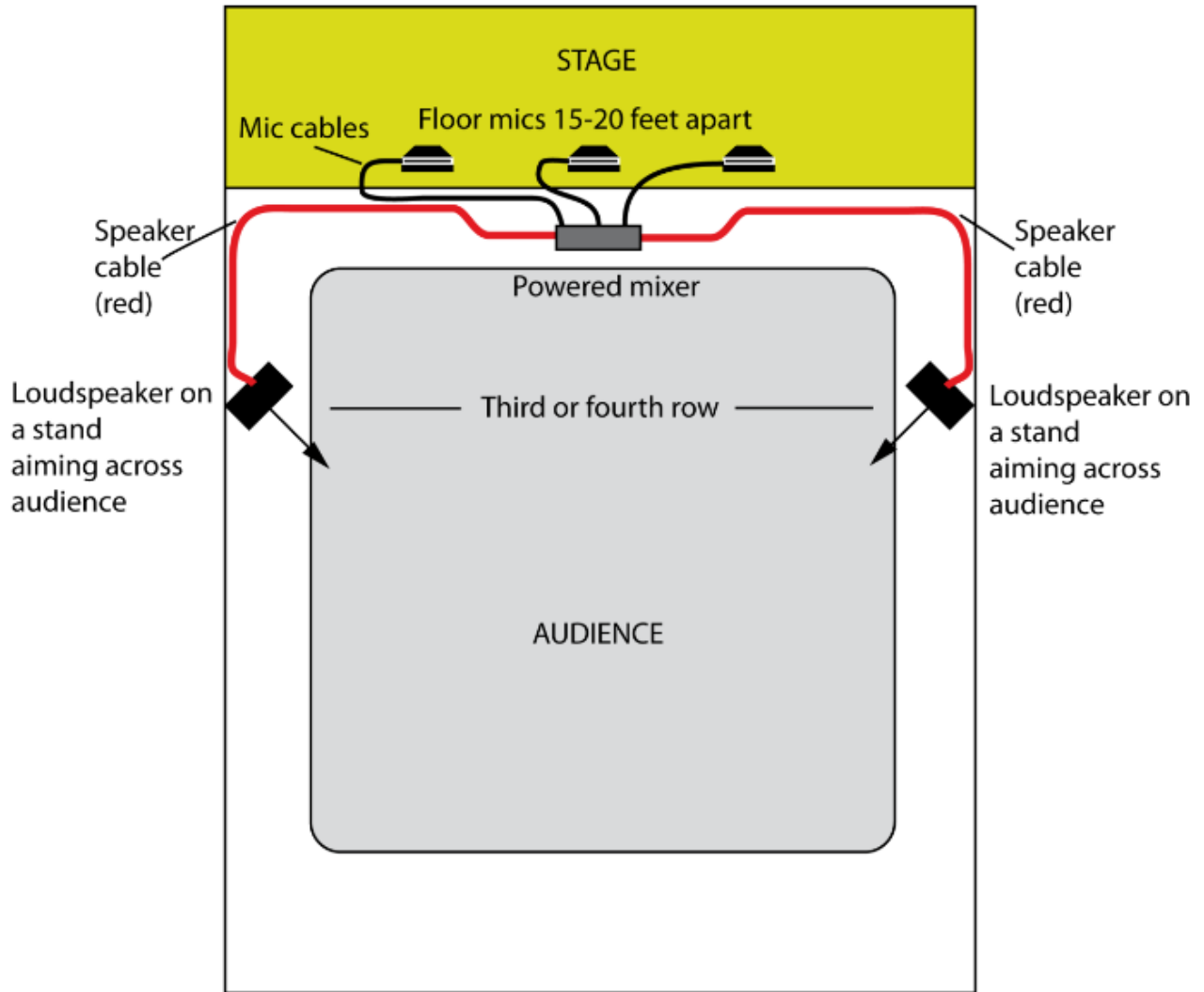
The speaker cables should have connectors that mate with the powered mixer on one end of the cable, and connectors that mate with the speakers on the other end of cable.

The simplest setup would have the powered mixer on a table in front of the stage. Run mic cables to the powered mixer, and run speaker cables to the speakers, placed on stands near the side walls even with the 3<sup>rd</sup> row of the audience. See the diagram on the next page.

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## THEATER SOUND SYSTEM 2

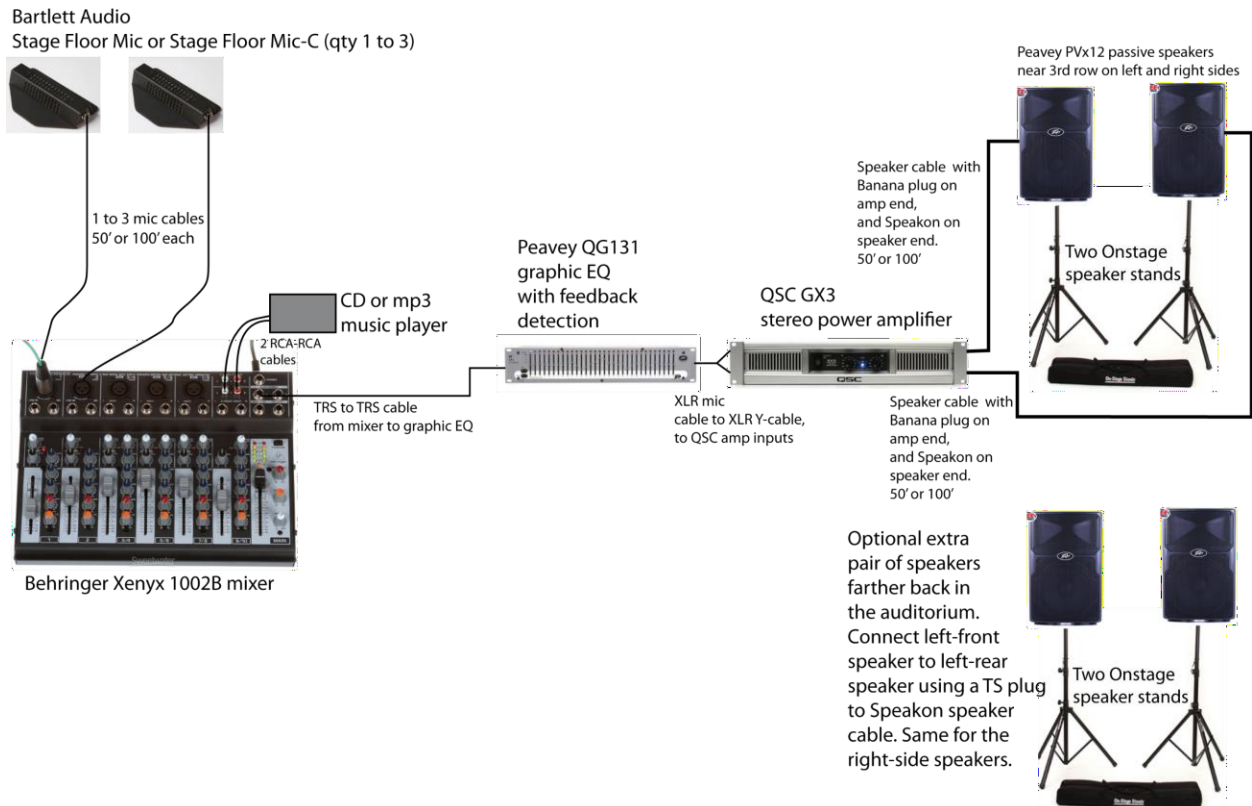
with a powered mixer near the stage



The mic cables plug into the powered mixer.  
The speaker cables from the powered mixer connect to each loudspeaker.

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Here is a more complex system. Please see the figure below:



From left to right, here are the components:

- Bartlett Stage Floor Mic-EC \$285 each.  
<https://www.bartlettaudio.com/products/stage-floor-mic-ec-enhanced-clarity>
- Mic cables, 50 feet or 100 feet long (from stage to mixer), quantity 1 to 3 @ \$37 = \$37 to \$128
- Behringer Xenyx 1002B mixer \$99.99
- Pro Co BP-3 Excellines Balanced Patch Cable - 3' Audio Cable, 1/4" TRS Male-1/4" TRS Male, (from Behringer mixer to Peavey graphic equalizer). \$12
- Peavey QF131 graphic equalizer with feedback detection \$200
- Y-adapter, female XLR to two female XLRs (from Peavey graphic EQ to QSC power amp inputs) \$26
- QSC GX3 power amplifier \$300
- Pro Co S12BN-50 Banana-Speakon Speaker Cable- 50' (from QSC power amp to Peavey speakers) qty. 2 @ \$60= \$120
- Peavey PVx12 loudspeakers \$230 each (2 to 4 needed) and Onstage speaker stands (\$200 for 2, \$400 for 4)

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SOUND SYSTEM VENDORS

- [www.bhphotovideo.com](http://www.bhphotovideo.com)
- [www.sweetwater.com](http://www.sweetwater.com)
- [www.musiciansfriend.com](http://www.musiciansfriend.com)
- [www.samash.com](http://www.samash.com)
- [www.guitarcenter.com](http://www.guitarcenter.com)

**THEATER SOUND SYSTEM**

