Ballrooms are the lifeblood of convention centers. In order to accommodate gatherings of different sizes and maintain a high level of bookings, convention center ballrooms need to be extremely flexible in their physical configurations as well as their audio and video routing capabilities.

Biamp’s Tesira platform creates a networked media system where audio and video can be processed and distributed to any desired ballroom configuration. TesiraLUX can accept and transmit video up to and including 4K60, helping to create an impactful video experience for show attendees. Tesira interfaces with Dante™, offering additional options for input sources such as microphones. This, used in conjunction with Tesira’s ambient noise compensation capabilities, ensures that the audio output remains intelligible.
Typically in high demand, ballrooms must be reconfigured quickly to ensure that the next show, banquet, or special event runs smoothly. This applies to the audio and video distribution as well. In this scenario, Tesira is ideal for managing the ballroom audio and video. Presets can rapidly reconfigure the audio and video routing, while a partitioned system design can allow work to be performed in unused areas without affecting any events currently underway. A mobile cart with wireless microphones and media sources can be deployed to any of the ballrooms on short notice, easily accommodating last-minute requests.

AmbientSense™ can be employed to automatically adjust audio levels in the foyer and ballrooms. The installed sensing microphones detect ambient noise levels and an adaptive DSP algorithm increases or decreases the volume of the music and paging accordingly.

**SYSTEM DESIGN GUIDE | CONVENTION CENTER BALLROOMS**

- Supports integration with a Dante™ wireless receiver
- Impedance monitoring and analog failover available for loudspeakers
- Audio and video processing and routing throughout the ballrooms and foyer
- Multiple video sources can be streamed simultaneously to different ballrooms and foyer screens

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**Tesira Features**

- Audio and video processing and routing throughout the ballrooms and foyer
- Multiple video sources can be streamed simultaneously to different ballrooms and foyer screens

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**Diagram**

- Ballrooms 1 and 2 with Tesira components
- FOYER equipment room with Tesira components
- Mobile cart with wireless microphones
- Wireless receiver
- Multiple loudspeakers
- TesiraAMP-8175R
- TesiraLUXOH-1
- TesiraLUXIDH-1
- Tesira SERVER-IO
- AVB SWITCH
- (3) DSP-2
- (3) SAC-4
- (1) DAN-1
- Multiple loudspeakers
- Impedance monitoring and analog failover available for loudspeakers

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**Legend**

- Tesira (AVB/TSN)
- Analog Audio I/O
- Network /Control
- Digital Video
- Dante
- Recording or streaming service
- Shared content sources (TV/PC etc.)
- Media
- Mobile cart
- Wireless microphones
- Multiple loudspeakers