

# Case Study

Audio  
Video  
Integration  
User Control

## The Transcontinental Hotel



SMART HOME  
AUDIO VISUAL



# A 21<sup>st</sup> century Audio Visual and Control system makes the difference in venues

## The Venue

Established in 1884 the Transcontinental is a historic Brisbane Hotel located on George Street just across the road from the Roma Street Transit Centre.

This once "sleeping giant" of Brisbane has undergone a complete renovation internally and externally to emphasize the heritage and elegance of the building.

Now known as "The Trans" this fantastic venue boasts four bars, a dining hall, beer deck and a function space across two levels. The new modern look features exposed brick walls, polished concrete floors, wooden bars and varied wood panel or pressed metal ceilings. Part of the new look includes a "throw back" to days gone by where some of the historic tile work had been accidentally exposed during the renovation and now stands as a feature of the room.

## The Project

A major part of the refurbishment was the installation of a state of the art Audio Video and Control system that matches the ambition and direction of The Trans.

Acoustic Technologies in conjunction with Smart Home Audio Visual, designed a complete AV and Control system that would satisfy the requirements of this new venue.

## Design Criteria

- High quality audio systems in every bar and space
- A big screen in every bar
- Various auxiliary TVs in every bar
- Audio and Video inputs in every bar
- iPad control of the entire system in every bar





## About the Audio

### Performance and Style

The newly installed sound system delivers superb even coverage throughout the various zones but also maintains a good degree of separation between the different areas allowing for multiple audio sources to be played across the venue simultaneously.

As the venue has a modern clean look, architectural integration of the AV equipment was a must. As a result the configuration, colour and location of each speaker is specific to the space ensuring minimal visual impact with uncompromised performance.

The Craft and Public Bars benefit from LG04 + LGB01 systems suitable for both daytime background music through to live performers and DJs in the evenings. These bar areas can hold several hundred people which means that ample volume and coverage is essential to cater for the wide range of uses for the space.

### Architectural Audio

The Dining Hall and Beer Deck have a sublime ALA and LGB03 system that provides uniform background music throughout the day and evening. These spaces are mainly white with some black furnishings (lighting, fans, architrave etc) which stand as room features, and the speaker colour selection compliments the surrounding decor nicely.

The upstairs functions level benefits from twelve LG07 enclosures evenly distributed throughout the entire level. Unlike the downstairs areas installing subwoofers simply wasn't an option due to space and cabling restrictions. The LG07s provide stunning clarity and coverage and due to their slimline appearance they don't intrude on the space at all. These speakers are operated in a full range configuration and have plenty of power to cater for large events with several hundred people in attendance.

Each zone has its own DJ/Band input which allows a performer to set up in just about any part of the venue and have their sound streamed to any or all areas; on top of this there is are 3.5mm jack AV inputs to simplify laptop based presentations as well as connecting iPods etc for functions.

The whole system features a number of remote and local input sources including Foxtel, Sky, DTV and two Nightlife music feeds as well as DJ/Band and AV inputs which are available to all five audio zones. To accomplish this task properly advanced signal processing was required which came in the form of a DSP network consisting of a BSS London BLU-100 12x8 central processor along with a BSS BLU-BIB 8 way input expander. The staff have complete control over every zone via a number of wall mounted or roaming iPads located throughout the venue.

Amplification for the new system consists of two MK8175 eight channel amplifiers along with one BLACKBIRD 5K quad channel amplifier. These latest generation multichannel Class D amplifiers are eminently suited to high performance zoned audio applications that require a high degree of fault tolerance but have space restrictions to contend with. Taking only 6RU these three amplifiers have an impressive combined count of 20 channels.

## About the Video and Control



## An Integrated HD Video Network

The video requirements of the hotel were much like the audio in that each bar required its own fully integrated system capable of servicing day to day trade as well as private functions. Each bar features a projector as well as a number of LED TVs each of which can display different video streams (Foxtel, Sky, nightlife, DTV, local HDMI), on top of this each bar has its own HDMI input which simplifies the connecting of laptops for functions and presentations.

## Why RTI

A well designed control solution is the backbone to any successful Audio Visual Installation and this is why RTI was chosen. RTI products are renowned for their flexibility and reliability and this allowed a control solution to be tailored to the venue's requirements. The RTI system manages all aspects of the AV system including audio control, video control and channel changing. Staff manage the AV system using a number of iPads located throughout the venue.

## Equipment List:

### Craft Bar

- 4 Acoustic Technologies LG04 Enclosure (Black)
- 1 Acoustic Technologies LGB01 Sub Bass System (Black)
- 1 Acoustic Technologies MK8175 Amplifier
- 1 Epson EB-435 Short Throw HD Projector
- 1 100" Motorised 16:9 Screen
- 2 58" Full HD Toshiba Commercial Grade LED TV

### Public Bar

- 4 Acoustic Technologies LG04 Enclosure (Black)
- 1 Acoustic Technologies LGB01 Sub Bass System (Black)
- 1 Acoustic Technologies MK8175 Amplifier
- 1 Epson EB-435 Short Throw HD Projector
- 1 100" Motorised 16:9 Screen
- 2 58" Full HD Toshiba Commercial Grade LED TV

### Dining Hall

- 4 Acoustic Technologies ALA02T Architectural Enclosure (White)
- 1 Acoustic Technologies LGB03 Sub Bass Enclosure (White)
- 1 Epson EB-G6050W Professional Projector

### Beer Deck

- 3 Acoustic Technologies ALA02T Architectural Enclosure (Black)

### Platform Bar

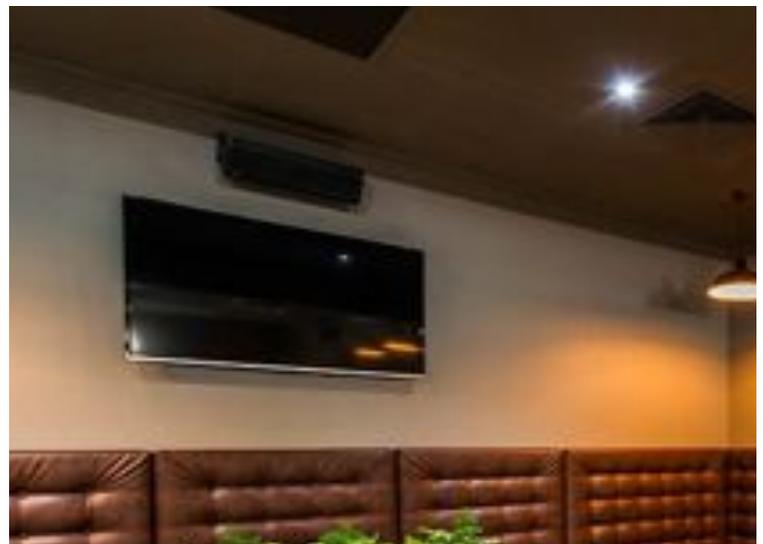
- 12 Acoustic Technologies LG07 Full Range Enclosure (White)
- 1 Acoustic Technologies BLACKBIRD 5K Amplifier
- 1 Epson EB-435 Short Throw HD Projector
- 1 100" Motorised 16:9 Screen
- 2 LG 55" Full HD Commercial LED TV

### System Processing

- 1 BSS London BLU-100 12x8 Digital System Processor
- 1 BSS London BLU-BIB 8 Way Input Expander

### Video Distribution and Control

- 1 RTI XP8 Advanced Control Processor
- 1 AV Gear MCV-1616A 16x16 Video Matrix



### Contact Details:

Audio Design Consultant  
Jason Roesler  
AT Professional  
07 3376 4122

[www.atprofessional.com.au](http://www.atprofessional.com.au)

AV Agent and Contractor  
Layton Judd  
Smart Home Audio Visual  
07 3733 1515

[www.smarthomeaudiovisual.com.au](http://www.smarthomeaudiovisual.com.au)