Amber TECHNOLOGY

CASE STUDY

JAZZRIGHT CASTLEREAGH – A STATE OF THE ART VISION AND AUDIO INSTALLATION

PROJECT OVERVIEW

Jazzright Castlereagh set out to transform a completely blank venue space into a cutting-edge entertainment and hospitality environment. The primary objective was to design and implement an intuitive, state-of-the-art vision and audio control system that would allow seamless operation for staff and end-users.

PROJECT REQUIREMENTS AND OBJECTIVES

The project demanded a ground-up installation of a high-end AV system, ensuring an effortless user experience for content management and distribution across multiple levels of the venue.

The key objectives included:

- Developing an easy-to-use, intuitive control system for both vision and audio.
- Enabling content to be controlled and directed throughout the venue via an iPad app.
- Ensuring reliability, seamless integration, and long-term serviceability.

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TECHNOLOGY SELECTION | WYRESTORM AND XILICA CONTROL SYSTEMS

To meet the project's requirements, WyreStorm and Xilica control systems were selected for their proven reliability and advanced functionality.

These systems provided:

- A user-friendly experience with intuitive app-based controls.
- The ability to distribute audio and visual content seamlessly across different venue levels.
- High-end processing power to manage multiple screens and content sources efficiently.

Complementing the control systems was the venue-wide deployment of Sonance speakers. Known for their performance and aesthetics, Sonance products were chosen to deliver consistent, high-output audio throughout the venue without the need for external PA systems.

In the Sports Bar area, the brief required powerful, high-output speakers capable of supporting live broadcast events such as NRL, Rugby, Football, and Racing. For the Restaurant area on Level One, the design also called for high-output audio, with integration for a radio mic system to support speeches and performances. The system includes connectivity for DJs or live bands via Dante XLR wall plates—an Amber Technology solution—allowing flexible use of the in-house sound system for any event scenario.

Multiple audio zones were implemented across both the Sports Bar and Restaurant areas, enabling independent control and content separation between floors and functional zones.

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A variety of Sonance speaker types were deployed to achieve optimal coverage and performance, including:
- Flush ceiling speakers
- High-output pendant speakers
- Ceiling pendant subwoofers

EXPANDED CAPABILITIES | WORLD GYM VISION CONTROL

Following the success of the initial implementation, the system was recently expanded to support vision control for two additional levels of the World Gym, which is part of the larger Castlereagh venue. This upgrade enables duty managers and staff to easily control and switch TV content on the gym floors using the same intuitive WyreStorm interface. The seamless integration provides a unified control experience across the entire venue, enhancing operational efficiency and delivering a consistent user experience.

CHALLENGES AND UNIQUE ASPECTS OF THE INSTALLATION

Executing this project posed several technical challenges, particularly in ensuring that the complex AV system functioned flawlessly across multiple levels. The key challenges included:
- Designing a system that met the client's high standards for intuitive operation.
- Implementing robust connectivity solutions to manage content distribution effectively.
- Ensuring that the system could scale and adapt to future needs.

Despite these challenges, the end result exceeded expectations, delivering a high-quality, dynamic AV experience throughout the venue.

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KEY RESULTS AND CLIENT FEEDBACK

The successful completion of the Jazzright Castlereagh project resulted in:

- A showcase venue that sets a benchmark for future AV installations.
- Reliable and efficient software and hardware performance.
- Online serviceability, ensuring ease of maintenance and system updates.
- Exceptional client satisfaction, with board members praising the system's intuitive functionality and high-quality output.

BROADER APPLICATION AND FUTURE IMPLEMENTATIONS

The success of this installation highlights the potential of WyreStorm, Xilica, and Sonance systems for various applications, including:

- Hospitality venues and event spaces
- Sports facilities and club environments
- Large-scale content management for corporate and entertainment industries

This approach has also been successfully implemented at the Newcastle Knights Centre of Excellence in 2022/2023, where the WyreStorm app-based system was used to manage two large LED screens and 18 display panels. Jazzright was responsible for the installation of all screens and processing, further demonstrating the system's capability in high-demand environments.

CLIENT TESTIMONIAL

"The WyreStorm and Xilica app-based control systems have set a very high standard for user experience and content management. The ability to effortlessly control and distribute vision and audio throughout the venue has been a game-changer."

CONCLUSION

The Jazzright Castlereagh project stands as a testament to the power of innovative AV solutions in transforming blank spaces into technologically advanced venues. With its intuitive control, seamless content management, and robust performance, this installation serves as a model for future projects in the AV industry.

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