

CLARE SPORTS CLUB & FUNCTION CENTRE

CLARE • SOUTH AUSTRALIA

CASE STUDY
AUDIO • VISION



PHOTO COURTESY
OF SJM BUILDERS

CLARE SPORTS CLUB AND FUNCTION CENTRE A VIBRANT HUB FEATURING ELECTRO-VOICE • DYNACORD AND YAMAHA

The Clare Valley, located in South Australia's Mid North region, is renowned for its stunning vineyards, exceptional wineries, and breathtaking landscapes. This picturesque area has seen a significant transformation thanks to the dedication of local volunteers who worked tirelessly to improve community infrastructure.

One major milestone was the Clare Oval Redevelopment Project. Efforts to update the outdated facilities began in 2013, and after years of lobbying and planning, the project finally received the support it needed to move forward in 2019. Situated just south of the Clare town centre, the sports precinct is a vibrant hub of activity, catering to a variety of sports and recreational needs.

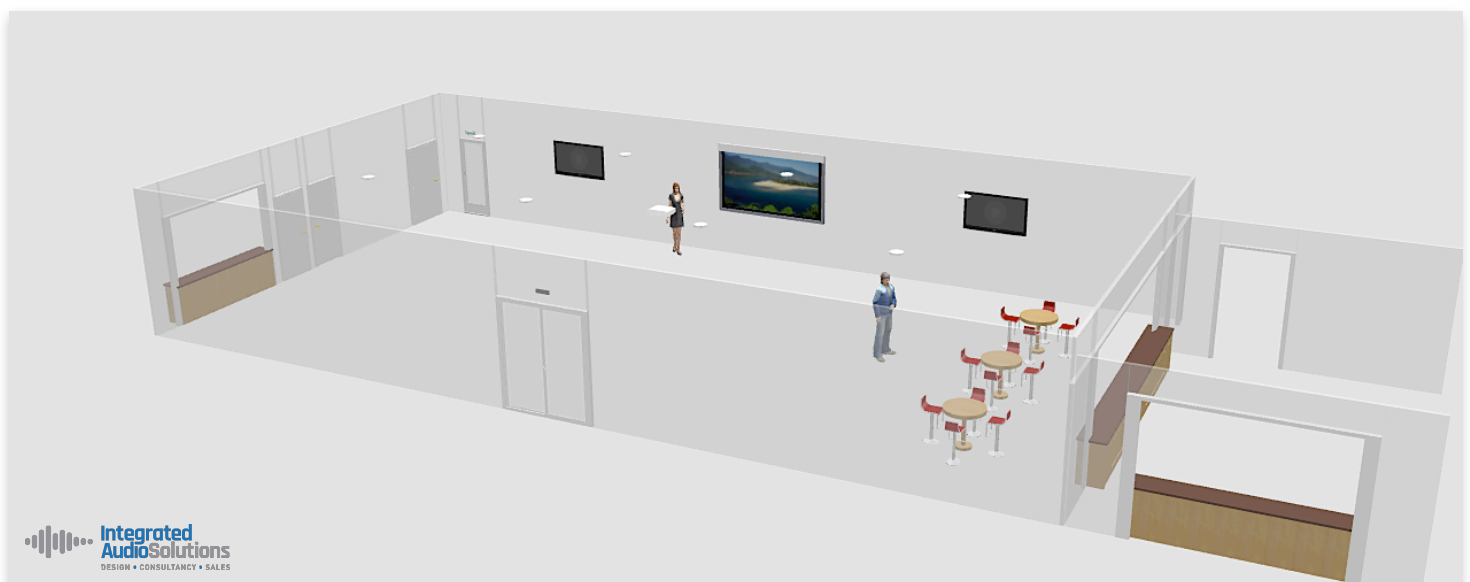
The precinct hosts male and female teams for football, netball, cricket, basketball, and tennis. Additionally, it is complemented by the adjoining Valleys Lifestyle Centre, which offers facilities for squash, swimming, and a gym, making it a central part of the Clare community's sporting and recreational life.

The newly completed hub serves as the home for the South Clair and North Clair Netball Clubs, South Clair and North Clair Football Clubs, and the Clare Combined Cricket Club. This vibrant facility also features a boutique events space, making it a versatile centre for both sports and community events.

Integrated Audio Solutions (IAS) was approached by Senior Project Architect Kristina Sogge from GP Architects to submit a technical proposal along with budgetary pricing guidelines in the early stages of redevelopment planning. Working closely with Kristina and Ryan Tregilgas, the project manager for the Clare Oval Redevelopment Committee, IAS prepared a comprehensive proposal and quotation. This document outlined all technical aspects, including predictions for both outdoor and indoor speaker placement.

The integration commenced under the guidelines of Loi Zanette, project manager for SJM Builders, the main contractors for the project. During the first fix construction phase, IAS conducted site visits to ensure that all A/V integration pre-wires were appropriately laid out and positioned. These tasks were carried out in collaboration with Pink Electrical, the chosen electrical contractor for the project.

The project's phased approach ensured seamless communication and alignment between all stakeholders, allowing IAS to deliver a robust and efficient audio-visual integration solution tailored to the needs of the Clare Oval Redevelopment.





THE AUDIO SYSTEM • CEILING SPEAKERS

The ceiling audio speaker system comprises of eight (8) Electro-voice Evid 8.2 eight inch speakers. Chosen for their superb sensitivity performance at lower levels and excellent headroom. The ceiling speakers are configured as low-impedance, all eight ceiling speakers are wired in pairs, allowing for greater audio headroom and wider bandwidth of the audio signal, as opposed to a "strung" 100v line system.



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EVID C8.2.LP

Performance matched for the EVID ceiling speakers is the Dynacord PCL1415 amplifier combining outstanding audio performance, exceptional reliability and secure operational safety.

All models in the PCL-Series provide several protection circuits which not only prevent the power amplifier itself but also the connected loudspeaker systems from being damaged.



DYNACORD PARAMAS PCL1415

THE AUDIO SYSTEM • OUTSIDE SPEAKERS

For the seated outside area two zones were created, South side and the area associated with the clubroom function space on the north end. Chosen where the Electrovoice low-profile ZX1i weatherised speakers with integrated QuickSam heavy duty mounting brackets. The speaker is a two-way system consisting of one eight inch (102 mm) low-frequency transducer, a 1.25 inch titanium diaphragm true high frequency compression driver.

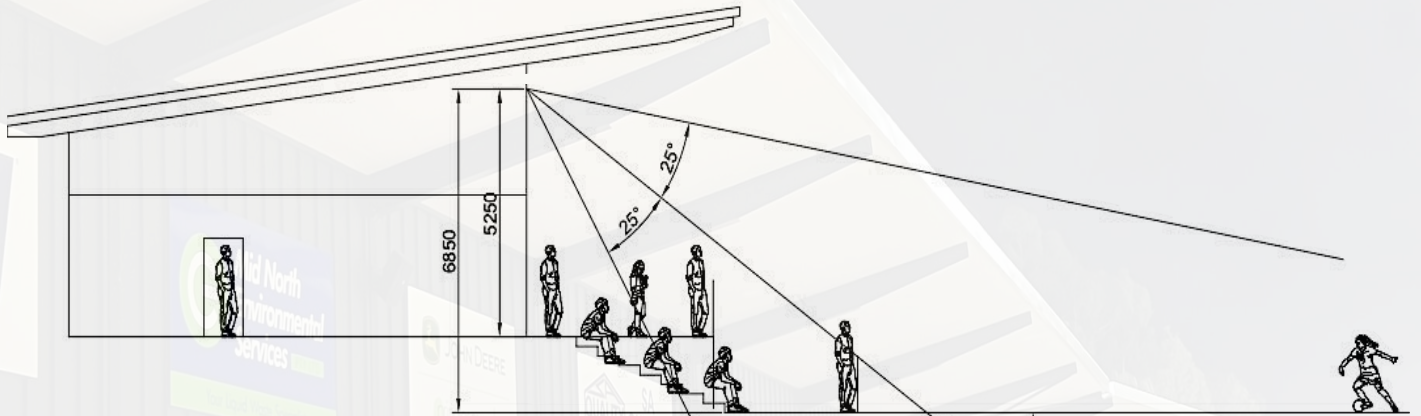
The enclosure uses injection-moulded high-impact ABS resin to make the ZX1i extremely durable. Given the extended wiring runs required, the system was configured as a high-performance 100V setup to optimise costs. Each speaker was tapped at its highest wattage position. During initial testing, listeners immediately praised the system's fidelity and clarity. Custom RSJ beam brackets were designed by IAS and fabricated to ensure the secure fastening to the vertical beams of the structure and to compliment the aesthetics.

The original design brief was to provide sound coverage primarily for the seating area near the boundary for presentations. However, the system exceeded expectations, delivering clear and powerful audio well into the centre of the oval and beyond.



ELECTRO-VOICE ZX1I
HIGH-PERFORMANCE LOW
PROFILE WEATHERISED
SPEAKER.
EIGHT (8) SPEAKERS TWO
(2) ZONES.

THE AUDIO SYSTEM • OUTSIDE SPEAKERS



Performance matched for the Electro-voice outside speakers is the Dynacord PCL1240 two (2) channel series amplifier combining outstanding audio performance, exceptional reliability and secure operational safety.



DYNACORD PARAMUS PCL1240T

THE AUDIO SYSTEM • WIRELESS SYSTEM

The wireless microphone system selected was the latest generation of JTS wireless technology, chosen for its cost-effectiveness and exceptional performance. Comprehensive RF tests were conducted on the receiver and handheld transmitter unit at our warehouse prior to acceptance. The performance proved to be outstanding in both RF (penetrating block walls) and audio quality.

The JTS R-4 is a four-channel system supplied with two wireless handheld transmitters, leaving the remaining two channels available for future expansion. Additional consideration was given to the system design for outdoor use, particularly for presentations at the edge of the oval. Remote outdoor antennas, connected in parallel via the JTS combiner, significantly enhanced transmission for the outdoor area. This setup exceeded RF performance expectations, providing excellent coverage to the centre of the oval and beyond, while maintaining outstanding sound quality.



JTS R4

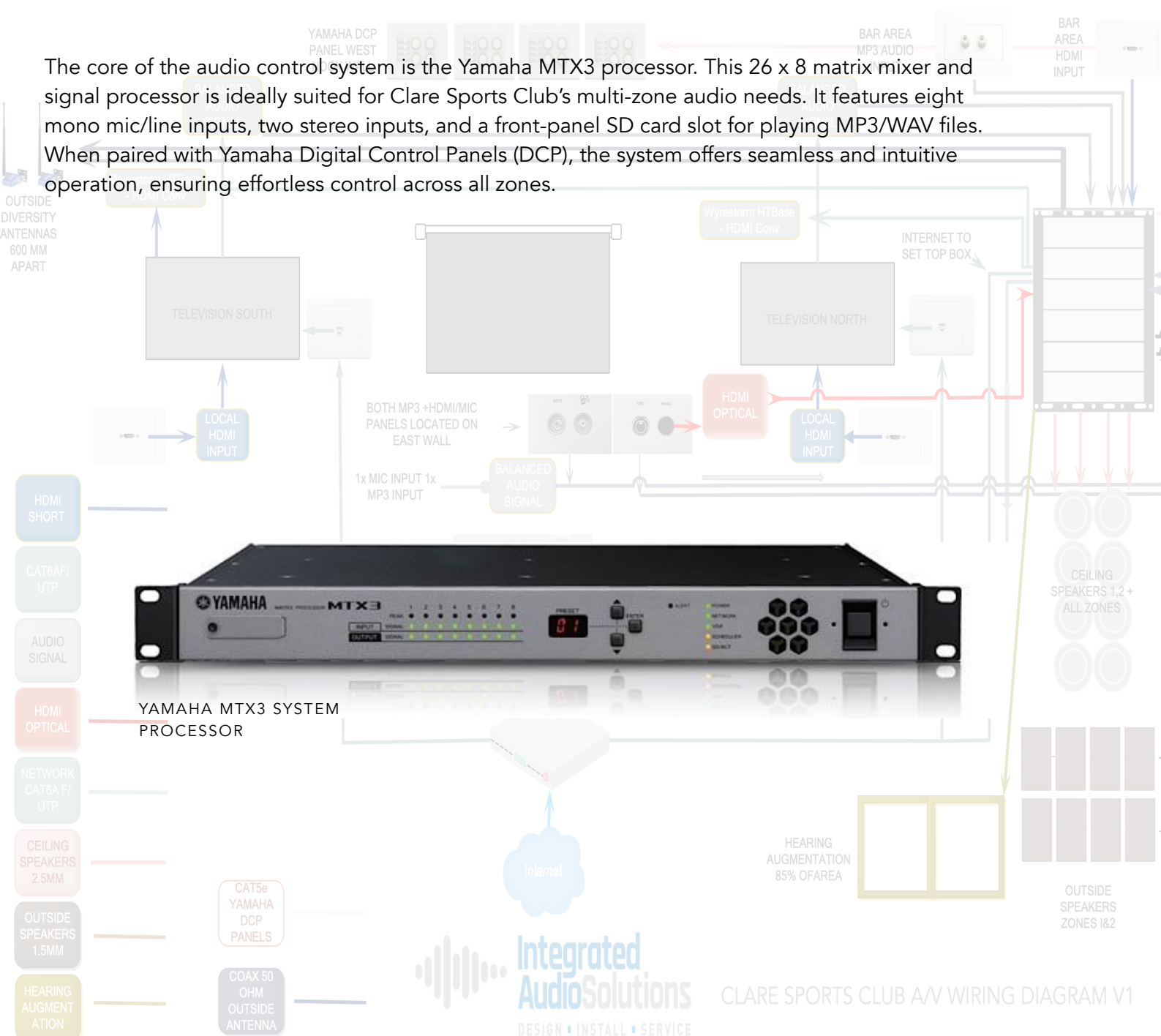


JTS JSS-4B



AUDIO:YAMAHA MTX3 MATRIX SIGNAL PROCESSOR

The core of the audio control system is the Yamaha MTX3 processor. This 26 x 8 matrix mixer and signal processor is ideally suited for Clare Sports Club's multi-zone audio needs. It features eight mono mic/line inputs, two stereo inputs, and a front-panel SD card slot for playing MP3/WAV files. When paired with Yamaha Digital Control Panels (DCP), the system offers seamless and intuitive operation, ensuring effortless control across all zones.



AUDIO SYSTEM CONTROL: MATRIX SIGNAL PROCESSOR

The control system is designed as a dual-mode system for user-friendly operation, featuring Yamaha DCP4V4S (Digital Control Panels) for simple, intuitive control. Wireless microphones and background music (BGM) were programmed and routed to outdoor zones, while vision switcher audio, wireless microphones, and BGM serve the interior areas of the club.

A second mode of operation was optioned, utilising the Yamaha's Wireless DCP software app, enabling control via tablets or smartphones (Android or iPhone). This app, accessed through a local network wireless router, replicating the functionality of the wired DCP panels while also offering different password-protected access levels, from basic coordinator to advanced operator.



THE VISION SYSTEM • MATRIX SWITCHER

The WyreStorm 4K 4x4 HDBaseT matrix switcher was chosen as cost effective high-performance system, offering transmission of 18Gbps HDMI content up to 35m/115ft by pairing HDBaseT with WyreStorm's powerful lossless compression algorithm. The MX-0404-KIT has 3 HDBaseT zone outputs with PoH and a single switched HDMI output which can be paired with WyreStorm's HAOC hybrid optical HDMI cables or any extender for transmission via HDBaseT or OM3 fibre.



THE VISION SYSTEM • VIDEO PROJECTOR

The Epson EB-L630U fixed lens laser projector was chosen, offering 3-chip LCD image quality with up to 6200 lumens of colour and white brightness, ease-of-connectivity and lamp longevity — the perfect fit for corporate events and sporting functions for the club.





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