

## AV REFIT FOR NEW ZEALAND'S PREMIER BADMINTON ASSOCIATION BADMINTON NORTH HARBOUR



### PROJECT OVERVIEW

Badminton North Harbour, a premier badminton facility, required a complete AV refit after severe flooding caused by Cyclone Gabrielle. The project involved upgrading all audiovisual components, integrating a smart signage system for court bookings, and ensuring seamless integration with a bespoke booking system.

### INITIAL PROJECT REQUIREMENT

Cyclone Gabrielle caused significant flooding in the Badminton North Harbour facility, rendering its AV infrastructure unusable. A complete AV refit was necessary to restore operations and enhance the facility's technological capabilities.

Key requirements included

- Installation of a smart signage system per court to display booking information.
- Integration with the facility's bespoke booking system.
- Implementation of a robust paging and audio system.
- Smart lighting systems for enhanced user experience.
- Reliable video-over-IP solutions for umpire seating.



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### SPECIFIC PROJECT OBJECTIVES

To modernise the facility's AV infrastructure, the following objectives were set:

- Deployment of a state-of-the-art paging system for efficient communication across the venue.
- High-quality audio systems to enhance the overall experience for players and spectators.
- Smart lighting solutions for optimised visibility and energy efficiency.
- Digital signage per court, displaying real-time booking information and ensuring smooth operations.

### PRODUCT SELECTION AND RATIONALE

**Newline Displays:** Selected for their superior performance and seamless integration with the bespoke booking system. The additional benefit of a remote Network Device Management (NDM) system allowed for easy troubleshooting and updates.

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**WyreStorm Video-over-IP Solution:** Chosen for its reliability in transmitting high-quality video feeds from the umpire's seat, ensuring optimal decision-making during matches.

### EQUIPMENT USED

**Newline Interactive Displays** (NL-NL-TT7523NTPLUS x 11) – Smart signage system providing clear and dynamic visuals for each court.

**WyreStorm Networked AV Solution** – NHDCTLPROV2 x 1 – Centralised control for seamless video over IP management.

NHD120IWTX x 5 – High-performance transmitters for reliable video distribution from umpire seats.

NHD120RX x 5 – Receivers ensuring smooth and uninterrupted video playback.

These solutions work together to enhance visibility, communication, and monitoring across the venue.

### UNIQUE ASPECTS OF THE PROJECT

**Bespoke Booking System Integration:** A key challenge was ensuring seamless integration between the smart signage system and the facility's custom booking platform.

**Smart Lighting System:** Implemented to provide automated, energy-efficient lighting tailored to the needs of each court.

**Display Installation Challenges:** Screens were mounted at a height of 4.5 meters, requiring precise engineering



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### KEY RESULTS

**Remote Access to Displays:** One of the most significant outcomes of the project was the ability to manage and troubleshoot screens remotely. This feature ensures immediate support and reduces downtime, enhancing the overall efficiency of the facility.

**Enhanced User Experience:** The new AV setup streamlined operations, improving the experience for both players and spectators.

### CLIENT INSIGHTS

*"As CEO of Badminton North Harbour, I couldn't be more pleased with the transformation. The introduction of our new screens has been absolutely amazing, enhancing the experience for players and spectators alike. The service and equipment provided are truly first-class". "The upgrades make this one of the most technologically advanced badminton centres in New Zealand and Australia. There are even rumours that Badminton Australia may use it as a reference for their own facility upgrades."*

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newline

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