

Martin Audio for Giants Town Stadium



Giants Town Stadium, which opened in Inagi, Tokyo, in March this year, is the home of the Yomiuri Giants' 'farm team' (nursery club) and will also host women's and amateur men's baseball games - as well as being a multi-use facility. Designed to bring fans closer to the action, the 2,900-seat, three-story stadium has been equipped with a Martin Audio-based weatherised (WR) sound system, to create a listening environment that offers presence and warmth.

With acoustic planning, construction and sales handled by Denon Engineering Co. Ltd, these comprise CDD10-WR (as the main speakers), CDD6TX-WR (100V/70V line speakers for 'Excite' premium seats, first base infield, third base infield rooftop garden, and standing room in the right field); CDD8-WR (for outfield grass area, and as temporary, portable speakers), and ADORN A40 (for the Umpire area inside the field). Transmission is over Dante, with Symetrix processing/distribution and Netgear network switching. The acoustic simulation and tuning were performed by Audiobrains.

The Martin Audio solution, tailored to the space, was proposed in order to achieve an immersive atmosphere and high clarity and intelligibility for each area - as befitting professional sports. In particular, the speaker design needed to be close to

the audience. Stated the Denon Engineering designing team, "At G-Town, the emphasis is not simply on 'producing sound,' but on providing the optimal acoustic environment for each area and purpose. The type and placement of speakers are carefully adjusted based on how the sound reaches and is heard. Martin Audio CDD10-WR speakers, which deliver clear sound over a wide area, were used as the main speakers. These cabinets are weather-resistant and dust-proof, preventing deterioration and breakdown due to wind, rain and humidity."

The ability to mitigate sound leakage outside the stadium was another key issue. In outdoor venues, in particular, there is a risk of sound traveling in unexpected directions. At this stadium, the speakers are housed in dedicated boxes and their directionality is controlled, ensuring accurate sound transmission within the stands themselves, while minimizing sound escape beyond the stadium.

High-quality CDD6TX-WR support the immersive experience of the Excite VIP seats - located closest to the ground. This is a special viewing area offering the ultimate in immersive experience unique to G-Town. To maximise the seating's features, these speakers, which combine high-quality sound and output, are designed to deliver clearer and more dynamic sound including announcements and background music. This integration is purpose designed to create a more memorable experience for spectators.



In the vast space of a stadium, there is a time lag in the sound from the speakers. For example, the 122m distance from home base to centre field is calculated to result in a delay of approximately 0.36 seconds - which can have a major impact on how announcements and background music are heard. Delay correction has ensured that sound can be heard naturally from any seat, creating a comfortable acoustic space. The speakers on the first floor also serve as emergency speakers.

There were further challenges. The G-Town stadium sound control room is located on the third floor, and there were concerns that this would make communication between the referee and the public address announcer difficult during games. To address this issue, mics were installed on the field to allow communication between the referee and the PA announcer, and sound equipment was improved to ensure smooth communication between the two parties. Martin Audio's ADORN A40, renowned for its clear sound quality, was used for this communication.

The central control system emphasises intuitive operability, and uses tablet devices in the Symetrix control environment. In addition to intuitive operation of mics, background music and other controls, the screen is customisable to suit the user's proficiency level. A patch panel for maintenance services is also provided within the ground, allowing the system to be monitored from the ground side, ensuring ease of maintenance. In a space where sports and entertainment combine, sound is one of the keys to creating emotion. The project team are satisfied that the Giants Town Stadium maximises the power of sound to enhance the spectator experience, embracing the cutting edge of sound engineering required for professional sports facilities such as this.

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