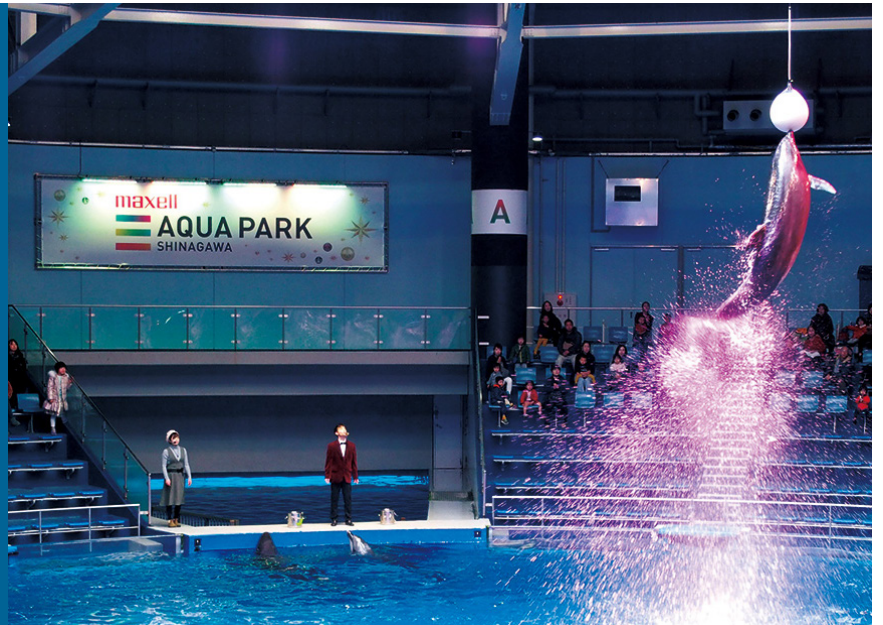


CASE STUDY



THEMED ATTRACTIONS



OPPORTUNITY

Maxell Aqua Park Shinagawa in Tokyo required a specialized, water-resistant audio system to provide intelligible sound for dolphin shows in its massive circular pool venue, The Stadium.



SOLUTION

To provide the best possible sound in the unique venue, Hibino Corporation outfitted The Stadium with water-resistant JBL loudspeakers, Crown amplifiers and BSS signal processors.



This new system delivers seamless coverage across the entire venue, ensuring that every guest receives the same compelling listening experience.”

MAXELL AQUA PARK SHINAGAWA, JAPAN

Maxell Aqua Park Shinagawa is an aquarium in urban Tokyo that showcases the mysterious and colorful marine world. The aquarium offers a range of programs reflecting seasonal characteristics and popular trends—especially The Stadium, which is a massive round pool featuring dynamic performances by dolphins.

“To ensure that all visitors can hear the performances clearly, the management requested us to implement a system that would produce crystal-clear, immersive sound in every corner of the venue,” said a spokesperson at Hibino Corporation. “To provide balanced audio coverage, we used JBL’s AWC Series waterproof speakers along with Crown amplifiers and a range of other HARMAN accessories. This new system delivers seamless coverage across the entire venue, ensuring that every guest receives the same compelling listening experience.”

To improve performances and immerse the audience, JBL AWC Series speakers were installed in The Stadium. AWC Series loudspeaker systems were chosen for their excellent sound quality and high weather-resistance. They can withstand splashes of seawater as well as high-temperature and high-humidity locations with condensation, such as pools. AWC159 loudspeakers were installed to provide more extensive coverage and cover a greater area with fewer speakers. AWC15LF subwoofers were utilized for additional low-frequency support.

In addition to the AWC Series speakers, Crown DCi 4|600N amplifiers and BSS BLU-160 digital signal processors were installed, enabling flexible control over the outputs of 16 AWC Series speakers. Also, to add high-quality, realistic sound effects to moving objects, a control system providing 360-degree projection mapping was introduced. An added advantage of this setup is that all the outputs can be controlled by any Windows PC using HARMAN HiQnet Audio Architect software and the customized displays only make it easier to operate.



AKG

AMX

BSS



dbx

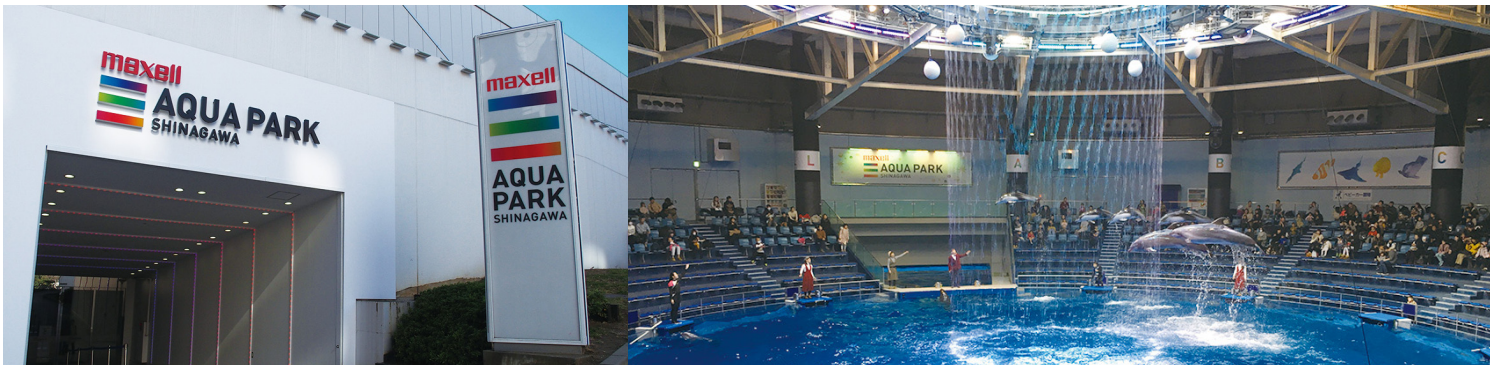


lexicon

Martin

Soundcraft

STUDER



“

The response has been excellent from the visitors. The addition of amplifiers and other changes have significantly enhanced the audio quality in The Stadium.”



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“The response has been excellent from the visitors,” said a spokesperson at Maxell Aqua Park Shinagawa. “The new audio system can also handle a live performance by a singer in the dolphin show. The addition of amplifiers and other changes to improve the system’s overall performance has significantly enhanced the audio quality in The Stadium and the other areas.”

“Maxell Aqua Park Shinagawa is a major tourist attraction, so it’s imperative that they have a state-of-the-art professional audio system,” said Ramesh Jayaraman, VP & GM HARMAN Professional Solutions, APAC. “We would like to thank Hibino, our country partner, for meticulous planning and deploying HARMAN Professional Solutions to deliver the precision audio quality required.”

PRODUCTS USED

BSS BLU-160 DIGITAL SIGNAL PROCESSORS

CROWN DCI 4|600N AMPLIFIERS

JBL AWC159 LOUDSPEAKERS

JBL AWC15LF SUBWOOFERS

ABOUT HARMAN

HARMAN (harman.com) designs and engineers connected products and solutions for automakers, consumers, and enterprises worldwide, including connected car systems, audio and visual products, enterprise automation solutions; and services supporting the Internet of Things. With leading brands including AKG®, Harman Kardon®, Infinity®, JBL®, Lexicon®, Mark Levinson® and Revel®, HARMAN is admired by audiophiles, musicians and the entertainment venues where they perform around the world. More than 50 million automobiles on the road today are equipped with HARMAN audio and connected car systems. Our software services power billions of mobile devices and systems that are connected, integrated and secure across all platforms, from work and home to car and mobile. HARMAN has a workforce of approximately 30,000 people across the Americas, Europe, and Asia. In March 2017, HARMAN became a wholly-owned subsidiary of Samsung Electronics Co., Ltd.



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