

PARTNER STORY



STADIUMS & ARENAS



OPPORTUNITY

Upgrade SK Happy Dream Stadium's aging sound system with a premium industry-leading solution with reliable performance providing a rich audio experience with superior coverage and intelligibility through a wide variety of weather changes.



SOLUTION

Audio integrator, Kinoton Korea, designed a system with JBL weather-resistant JBL speakers, Crown amplifiers, Soundcraft mixer, and BSS Soundweb London.

“

The stadium owners love the new HARMAN system—the improved audio coverage really enhances the fans' experiences during games.”

INCHEON SK HAPPY DREAM STADIUM

Incheon SK Happy Dream Stadium, host to SK Wyverns baseball games in South Korea, hired audio integrator Kinoton Korea to equip the stadium with a complete networked sound reinforcement system by HARMAN Professional Solutions.

Built in 2001, SK Happy Dream Stadium plays host to home games by SK Wyverns, a professional baseball team based in Incheon, South Korea. As part of a continuous effort to improve the stadium, which seats 25,000 fans, the stadium recently decided to upgrade the stadium's aging sound system. In order to provide fans with a rich audio experience with superior coverage and intelligibility, SK Wyverns hired local audio integrator Kinoton Korea to design and install a premium sound reinforcement system. Kinoton Korea selected a complete HARMAN networked audio solution for its industry-leading sound quality and reliable performance.

“The stadium owners love the new HARMAN system—the improved audio coverage really enhances the fans' experiences during games,” said Cheol Yoon, VP, Kinoton Korea Inc. “South Korea experiences a wide variety of weather as the seasons change, so it was critical that all stadium speakers be weather-proof. The ability to utilize weather-resistant JBL speakers enabled us to provide SK Happy Dream Stadium with a high quality sound reinforcement system that is perfectly suited to the dynamic South Korean climate.”

The HARMAN system installed by Kinoton at SK Happy Dream Stadium features a range of weather-resistant JBL Professional speakers distributed throughout the stadium, including 54 AM7215/95 WRX, 16 AW595, nine ASB7128 WRX, 37 AC26 WRX, 39 Control 26CT and 15 Control 25AV speakers. The entire speaker system is powered by Crown DriveCore Install Series amplifiers. In the control room, microphone and playback signals are mixed using a Soundcraft Vi1 Series mixer, while two JBL LSR305 speakers provide accurate monitoring.



AKG

AMX

BSS



dbx

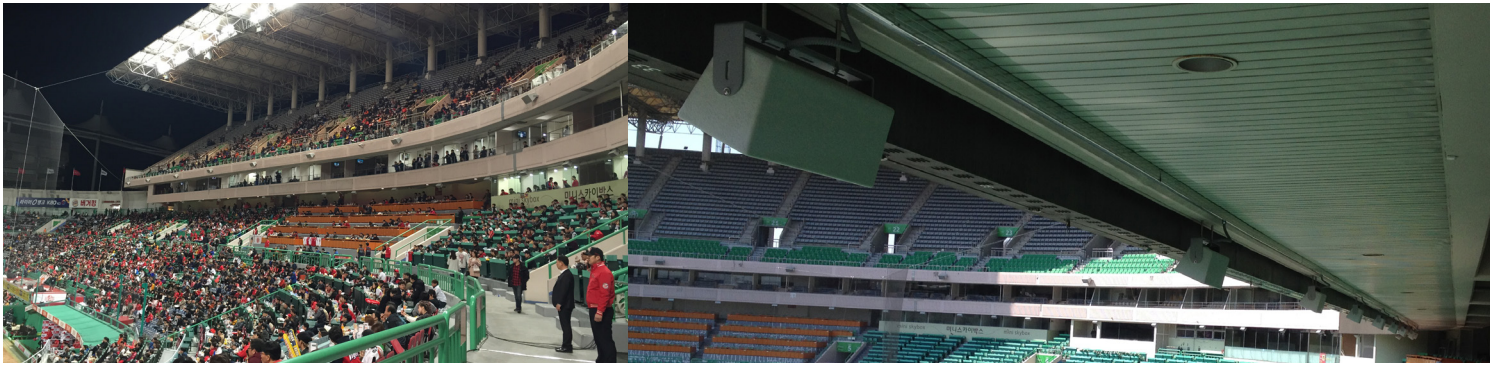


lexicon

Martin

Soundcraft

STUDER



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Kinoton designed the entire system around a BSS Soundweb London BLU-800 signal processor and two BLU-320 expanders, providing the foundation of the custom HARMAN solution. Additionally, six Soundweb London BLU-BOB2 break-out boxes each offer eight channels of analog audio output expansion via the high bandwidth, fault tolerant digital audio bus. Finally, six BSS MC-1 fiber optic media converters provide signal transport over extremely long distances (up to 6.2 miles) using a single cable. MC-1 devices utilize automatic link restoration which re-establishes network links between two devices when any Soundweb London device is disconnected or restarted.

“The BLU Link connectivity helped us ensure clean digital connections between the processors and amplifiers,” continued Cheol Yoon, VP, Kinoton Korea Inc. “The MC-1 was also critical for successful transmission over the necessary distances. The main broadcasting room was in a completely different space than the amplifier racks, so we used optical cables for transmission. The BSS Soundweb London system was the perfect choice in this scenario.”

“At HARMAN Professional Solutions, we understand the excitement that fans feel during baseball games,” said Ramesh Jayaraman, VP & GM, HARMAN Professional Solutions, APAC. “We are pleased that our solutions help keep the momentum at SK Wyverns’ games at a high level. We thank Kinoton Korea for their expertise and excellent customer service, and for their faith in utilizing HARMAN products to satisfy their clients’ expectations.”



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PRODUCTS USED

JBL AM7215/95 WRX HIGH POWER 2-WAY LOUDSPEAKERS WITH 1 X 15" LF & ROTATABLE HORN

JBL AW595 HIGH POWER 2-WAY ALL WEATHER LOUDSPEAKERS WITH 1 X 15" LF & ROTATABLE HORN

JBL ASB7128 WRX ULTRA LONG EXCURSION HIGH POWER DUAL 18" SUBWOOFERS

JBL AC26 ULTRA COMPACT 2-WAY LOUDSPEAKERS WITH 2 X 6.5" LF

JBL CONTROL 26CT 6.5" CEILING LOUDSPEAKER TRANSDUCER ASSEMBLY

JBL CONTROL 25AV COMPACT INDOOR OUTDOOR BACKGROUND FOREGROUND LOUDSPEAKERS

CROWN DRIVECORE INSTALL SERIES AMPLIFIERS

SOUNDCRAFT VI1 CONSOLE PACKAGE

JBL LSR305 5" TWO-WAY POWERED STUDIO MONITORS

BSS SOUNDWEB LONDON BLU-800 SIGNAL PROCESSOR

BSS SOUNDWEB LONDON BLU-320 I/O EXPANDERS

BSS SOUNDWEB LONDON BLU-BOB2 BREAK-OUT BOXES

BSS MC-1 FIBER OPTIC MEDIA CONVERTERS

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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