

Bosch provides one-stop communications solution for Jinan Olympic Sports Center



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Industry:

Entertainment

End User:

Jinan Olympic Sports Center

Occupying an area of 81 ha. and featuring a built surface area of 350,000 sqm, the Jinan Olympic Sports Center will be the main stadium for the Eleventh National Games of the People's Republic of China.

The Center boasts a 60,000-seat stadium, a sports center with a capacity of 10,000 people, a swimming pool, tennis courts and a 55,000 sqm central terrace. The construction has a total built surface area of over 60,000 sqm, can accommodate more than 12,000 sports fans and is set to host the closing ceremony, gymnastics and rhythmic gymnastics events.

Business Objective:

The Jinan Olympic Sports Center has been constructed on a grand scale and will be one of China's most important sports facilities. As such, it requires complex safety precautions and emergency response planning. In order to ensure the personal safety of athletes, spectators and staff at the stadium in the event of emergency situations, the Center requires a reliable and high-performance public address system. The sound system at the Jinan Olympic Sports Center stadium must be capable of crystal-clear audio transmissions both for sports events and for the large artistic performances due to be held in the stadium; it must also cover the spectator area, rostrum, competition floor and judging area, as well as the behind-the-scenes sound rooms.

Solution:

Bosch Security Systems is committed to providing a one-stop security and communications solution for sports facilities. Successful projects include well-known stadiums all over the world. Drawing on its abundant global design experience, Bosch provided a Praesideo public address and emergency sound system, an Electro-Voice (EV) sound system, and a TELEX/RTS communications management system for the Jinan Olympic Sports Center.

The Bosch Praesideo digital public address and evacuation using a unique fiber-optic network, which allows complete freedom in system architecture and high levels of redundancy those conventional systems cannot offer. Public address system is able to transmit vocal evacuation instructions both automatically and manually, and can also be used for day-to-day operations such as providing background music. 10 Praesideo public address and emergency sound systems have been installed in Olympic Sports Center to provide a solution featuring 20 call stations, 39 remote call stations, 8 CobraNet connections used for high-quality long-distance communication, over 120 power amplifiers and more than 2,600 loudspeakers of various types. The sound system designed by EV for the Center's stadium includes several FRX, EVID, MH and line array XLD 281 loudspeakers. A digital signal input is passed through a long-range remote control module of the TG-series digital remote power amplifier, providing the user with a single centralized control for the system. CAN-BUS network control makes for a simple, logical and yet extremely efficient sound system.



Furthermore, the signal uses CobraNet open-frequency digital transmission protocols, making it easy to expand the sound system and connect with external systems such as the public address system. The TELEX/RTS communications management system has an important role to play in the preparation and performance of the opening ceremony of the Games, helping the entire process to run smoothly. The TELEX CRONUS internal communication system is connected to the KP-32 and KP-16 modules. In combination with the BTR-800-RTS and TR-800-RTS, these form an RF dispatching center. Performance directors, staff and actors can use the two-way BP-325 microphone waist pack and PH-1R/2R headset for constant communication.

Result:

Bosch Security Systems has provided a one-stop information solution for the Jinan Olympic Sports Center, satisfying the center's requirements for a public address system, an emergency sound system and communication package for the opening ceremony performance. All products and systems have been equipped and successfully tested to the highest standards. As the opening of the Eleventh National Games gets underway, Bosch technology will help ensure that sound quality in the Jinan Olympic Sports Center is crystal clear for this leading sports event.

Installed by:

Mingtong Technology Company, Zhejiang
Room 1306, Technology Building, Eastern Software Park, 90
Wensan Road, Hangzhou City, Zhejiang Province
310012

Bosch Security Systems

Room 3105-3109, Tower 1, Office Building, 218
Tian Mu West Rd 200070
(86) 21 63172155
www.boschsecurity.com.cn