

# Bosch secures sports stadium and provides venue sound system



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## Industry:

Entertainment

## End User:

### Parramatta Stadium Sydney, Australia

Parramatta Stadium is one of New South Wales's premier multi-purpose arenas, regularly hosting a variety of sporting, entertainment, corporate, cultural and community events. It was opened in 1986 by her Majesty Queen Elizabeth II. and is situated just over 20km from Sydney's CBD. Parramatta Stadium is located in the geographic epicentre of the city, close to more than 2 million people living in Western Sydney Region. Parramatta is the home to the Parramatta Eels NRL club and has hosted many major sporting events, major concerts and community events.

## Business Objective:

The Parramatta Stadium Trust required a security upgrade for the stadium and also needed to replace its old sound system as the legacy audio solution was 12 years old. After a lengthy planning and tender process the winning security system and sound system were both from Bosch. The Bosch Building Integration System was added to improve security and building management capabilities.

## Solution:

The system installed at Parramatta stadium includes Bosch analogue and IP cameras, variously supported by coaxial and Cat-6 cable. Signals from these cameras are sent to switch rooms on either side of the stadium linked by fibre to form a subnet that can be accessed by a number of workstations on the secure LAN running customised BIS software modules. The BIS server can also be monitored over a dedicated WAN by remote monitoring teams using an alarm management module.

8 x G4 500 Series Auto domes with auto track connected to a 16 channel VIPX 1600 Encoders and 6 x Dinion XF Day/Night IP 15 Bit Cameras, and a iSCSI 12 Bay 8TB RAID Unit for recording footage. Intelligent Video Analysis software is employed in all fixed cameras. An archive player with forensic search is also used to locate recorded footage as required.

An Electro-Voice speaker system was chosen to provide even coverage throughout the stadium. The Western & Eastern stands include 26 EV ZX3Pi loudspeakers installed at 5m intervals. The uncovered seat terraces are served by four EV MH640AC stadium horns that have been directed towards them from the very ends of both the Ken Thornett and Mick Cronin stands. Further sound reinforcement was also required for the rear two rows of seats in each grandstand, and this has



been provided by 64 EV Evid 8.2 ceiling speakers powered by Dynacord Paramus PCL1245 amplifiers. A total of three EV CP1800 and four CP4000S Control Precision amplifiers have also been rack mounted in a room in each grandstand to power the EV ZX3Pi systems. Two EV NetMax N8000 DSP processors assist with loudspeaker management. Fine-tuning of the speakers was controlled using EV IrisNet software.

## Result:

Parramatta Stadium Trust General Manager Luke Coleman believes Bosch represented the best quality and value that satisfied the needs of the venue. The EV sound system has provided quality products with future proofing capabilities, and the CCTV system the video analytics and quality hardware at value for money. According to Coleman, Parramatta Stadium has multiple goals for its new integrated video surveillance and audio visual system and BIS delivers on all of them. "One of the things that really appealed to us about this system was the capability of the Bosch Integrated System to grow by adding on cameras, and through the future integration of fire control, access control and alarm management," Coleman says. "With BIS, we now have a launching base to really improve our security and building management capabilities – and that's exactly what we were looking for."

## Installed by:

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