

ProAudioAsia

LIVE SOUND | RECORDING | INSTALLATION | A/V | BROADCAST | POSTPRODUCTION | January–February 2014

ON-AIR AND ALL CLEAR

How South Korea's SBS Medianet navigates crowded RF



**SSL LIVE
ON TOUR**

Under the hood and
on tour with the SSL Live

**AR RAHMAN'S
KM COLLEGE**

AR Rahman talks education
and audio in India

**FUNKTION ONE
ARRIVES IN MONGOLIA**

Mongolia's first F1 install
at VLV Member's Club

Singapore: MICA (P) 013/05/2013;
Malaysia PPS 1604/05/2013 (022953)

NEW DS8000D Audio Distribution System with AES

www.xta.co.uk



DS8000D. "D" is for Digital. And Analogue.

Re-engineered from the ground up, based on your feedback about the best selling DS800, the DS8000 has already set a new standard in audio distribution systems. With all new mic pre-amps, redundant power supply linking, quick one-to-many splitting and subtle panel illumination, it's a formidable package. The "D" version adds XTA assured quality analogue to digital conversion into the mix, with dual AES outputs per channel, word clock I/O and a choice of sample rates up to 192k. One more "D" means a lot more flexibility.



Racing ahead

The new grandstand at Sydney's Royal Randwick Racecourse is benefiting from advanced A/V courtesy of The PA People. **Richard Lawn** reports



'WE BELIEVE WE NOW HAVE THE pre-eminent audiovisual systems in the world.' This was the comment recently issued by a spokesman for the Australian Turf Club (ATC) in reference to the upgraded A/V facilities at the Royal Randwick Racecourse in Sydney. The new five-storey grandstand of this leading facility is the largest and most recent of its type in the country, equipped with IPTV, networked audio, integration and performance delivery for its patrons.

The ATC wanted to create a new paradigm in on-course facilities during the design phase of the Grandstand, focusing heavily on the technology that would be integrated into the venue. As a result, it turned to leading consultant Norman Disney & Young (NDY) to create its vision as a performance specification. The general contractor Brookfield Multiplex then turned to The PA People to create networked television distribution and audio systems that would deliver grand event experiences.

When the tenders were made public, little was known about the detail of the final requirements. As such, the performance specification called up a number of TV channels that would be required, for which an indicative number of TV screens could be proposed. On the

audio side, the required acoustic performance criteria for each space and an indicative number of zones were nominated, along with an overview of functional requirements and environmental constraints. The third and final element of the contract consisted of a 1,000-port Ethernet network specifically designed to support both the IPTV and networked audio systems.

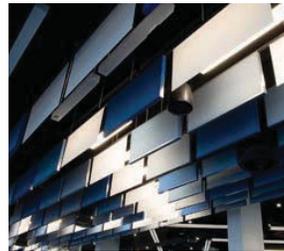
At that point, The PA People engaged with the services team from Brookfield, the consultants from NDY and two teams of architects together with the ATC to design and develop the systems that feature in the finished project.

'We considered The PA People as the leading choice for this project, with the requisite skills, knowledge and flexibility to deliver in a demanding environment, with the added benefit of having previously delivered projects utilising similar systems,' explains Norman Disney & Young's David Kyle. Coincidentally, the Randwick project fell 15 years after The PA People delivered the networked audio systems for another iconic project – the Olympic Stadium, which was recently christened ANZ Stadium. 'Having The PA People on board was imperative in maximising the outcome for the ATC,' adds Mr Kyle.

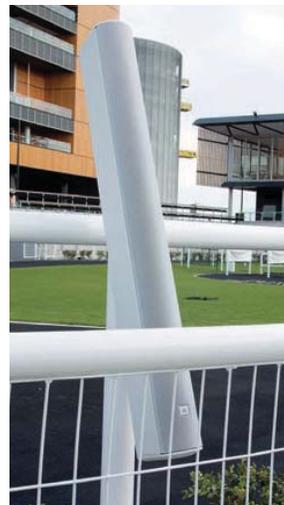
There are approximately 800



24CTM and 26CT ceiling speakers have been installed in the amenities areas



Control 67 PT pendant speakers have been installed on the ground floor



A ring of CBT 100LA line arrays cover the Theatre of the Horse parade ring

screens attached to an Exterity IPTV network displaying over 60 channels and 30 signage pages over the entire site. 'This is the fourth major IPTV system we have deployed from Exterity,' explains The PA People senior project manager Josh Jones. 'This is easily our largest system, yet it has settled down without any significant issues'.

The majority of the Dante-networked audio system comprises products supplied by Harman Pro distributor Jands Pty Ltd. Over 1,000 JBL Control, AWC, CBT and AE series speakers have been installed into the six floors of the complex. The roof area is covered by JBL AE Series AM7000 models designed specifically for installation. 'They

with varying ceiling heights.'

The entire system is powered by 80 CTS Crown amplifiers. Outfitted with PIP-BLU modules, the amplifiers operate over BluLink, enabling them to be remotely controlled and managed via 12 BSS BLU-300 and 800 series processors. In total, over 60 zones can be accessed individually or in groups from four control PCs loaded with BSS London Architect software. Paging sources include the Race Caller, Weighing Room and Interstate and are managed in three stages of priority over the BGM.

In total The PA People integrated 11 racks of amplification and processing equipment into eight rack rooms with cable runs restricted to a



JBL speakers overlooking the racecourse

gave us the coverage and SPL level that we needed right up to the side of the racetrack,' explains Mr Jones. 'On the inside we used mostly the JBL Control 47LP and Control 47HC ceiling speakers for the corporate suites, ballrooms and dining areas.'

On the ground floor – home of the main betting auditorium and concourse – the lack of a ceiling led to the use of Control 67 P/T pendant speakers which blend into their surroundings. 'Not only are they aesthetically successful, they provide us with enough power to get above an excited race crowd,' adds Mr Jones. Further amenities areas and the smaller concourses have been installed with 24CTM and 26CT ceiling speakers. Meanwhile, the Theatre of the Horse parade ring features CBT 100LA speakers to provide the directivity required to cover the venue without, literally, scaring the horses.

Brett Steele, project manager for The PA People, explains further: 'The challenge was to ensure a balanced audio level across adjacent zones with entirely different acoustic properties, whether they be internal to external or concrete to carpet and

maximum of 40m. Operating on its own dedicated HP Procurve Ethernet network, The PA People believe the facilities in the new Royal Randwick grandstand represent the largest integrated networked A/V system in Australia.

'The ATC wanted to set a benchmark both nationally and internationally for its grandstand, both from a race-day and non-race-day events perspective,' comments ATC executive general manager of property development Mark Flanagan. 'In addition, we wanted to ensure that punters attending the races were receiving all the information, and furthermore that they could receive it either at home or at a pub. A centralised system allowing us to be flexible with our offering as trends change and as the master-plan for the spectator precinct develops was also at the forefront of our thought process. The PA People, in combination with Norman Disney & Young, have delivered everything we were hoping for.'



A total of 80 Crown CTS amplifiers drive the system



JBL AE Series AM7000 loudspeakers provide coverage for the roof area

www.australianurfclub.com.au
www.ndy.com
www.papeople.com