



Adelaide Entertainment Centre

– lighting up an entertainment hub

An impressive \$52 million redevelopment of the Adelaide Entertainment Centre (AEC), South Australia's premier concert and theatre venue, presented unique lighting challenges for Philips Dynalite.

The redevelopment of the centre included the construction of the Theatre, a 2,500-person performance space, as well as an iconic entry structure known as the Orb.

Critical to the success of the expansion of the centre was the lighting design for the new areas.

Philips Dynalite was selected to deliver a bespoke lighting control system for new lighting installations in the Theatre and Orb that would comfortably integrate with the existing complex.

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Client requirements

The brief was simple. The lighting control system had to incorporate innovative technology that would allow functional and revolutionary new architectural and theatrical lighting to work side-by-side in the new Theatre and Orb.

At the same time the new control system had to integrate with the lighting control installations in the existing complex to ensure ease of operation and avoid having to retrain staff.

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The Philips Dynalite solution

The Philips Dynalite solution seamlessly integrates the existing Philips Dynalite control system with the older PLC-based lighting network on-site.

The system provides operation and management of both functional and feature lighting circuits as well as control of specific architectural and theatrical lighting effects in the Orb.

Importantly, the system allows all venue lighting to be easily controlled from a single interface.

Streamlined integration key to success

The lighting control network is integrated with the existing DyNet system via a network gateway and additional network gateways provide system integration to the other Philips lighting systems.

The Theatre and Orb are illuminated using a mixture of switching and dimming controls via the Philips Dynalite relay, ballast and leading-edge controllers.

A mix of dimmable and switched fluorescent luminaires provides functional lighting in back-of-house areas including docks, storage areas, kitchens and dressing rooms. Movement sensors have been fitted to several back-of-house areas to ensure lighting is only activated when the areas are occupied.

Simplified user control

Three DTPI 60 colour touch screen user interfaces were installed in key office and box locations to ensure that all lighting circuits in the centre can be easily controlled from any screen in the complex.

EnvisionManager software is run on a virtual PC allowing programming and set up access from any computer in the centre.

Products and technology used

To achieve venue-wide control, Philips Dynalite installed three main DTP160 colour touch screens positioned in key locations, which allows lighting circuits to be controlled from any one of the screens. An additional widescreen DTP100 provides local control of the VIP bar area lighting effects.

The Philips Dynalite sophisticated peer-to-peer communications RS485 bus network, DyNet, connects the various elements of the system. An ethernet interface allows the system's EnvisionManager server to run MapView software on a virtual PC, allowing efficient programming and set-up access from any computer in the centre.

Clever integration

The new lighting control network is integrated with the existing DyNet system via a network gateway and additional network gateways similarly connect the various sub-system spurs to the main DyNet trunk.

This architecture ensures that the EnvisionManager software server receives all necessary information in a timely manner for very quick responses.

Key client benefits

There's no doubt that the advanced Philips Dynalite lighting control system is responsible for the technical realisation of the dynamic and spectacular architectural lighting effects in the new Theatre and Orb.

The Philips Dynalite lighting control system has ensured all functional, architectural and theatrical lighting solutions have come together in a coordinated and an undemanding way.

Together with inspirational lighting designers, Philips Dynalite's technology has certainly helped put the Adelaide Entertainment Centre back on the map as a world-class venue for sporting, theatrical and corporate events.

The dynamic coloured light shows and lighting effects in the Orb have made the AEC something of a landmark for Adelaide.



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