

LIGHT NEWS

HOME AUTOMATION
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'A FIRST CLASS IMPRESSION'

ARTICLE PAGE 1

Dynalite

A FIRST CLASS IMPRESSION

Luxurious airport lounges are becoming an integral and defining element of the international travel experience and flying with Qantas is no exception. A recent upgrade to first-class facilities in the Sydney and Melbourne international terminals provides valued clients with a place to relax that is a world away from the hectic airport surrounds. Home to facilities and services usually reserved for luxury resorts, the Sydney Qantas First lounge features business facilities, a library, restaurant and entertainment zone as well as a Payot Paris day spa, providing complementary treatments set against the backdrop of a stunning vertical garden and offering travellers a true oasis of calm.

Lighting designers, Point of View, conceived a clever lighting scheme that blends with high levels of natural light, while still complementing the intimate nature of the lounge. Through the use of a mix of 1-10V HF dimmable fluorescent fittings, 50W metal halide wall wash feature lights and cold cathode used to highlight architectural features, Point of View have created a comfortable and relaxed environment.

The Qantas Club's dramatic entrance features the 'Motion Turbine', an overhead mock jet engine installation, which creates a striking architectural and visual link between the lounge and the airline and plays on the aviation theme. To further the effect, engine fins incorporate cold and warm white cathode, which are dimmed on a chase sequence using Dyalite controllers, giving the

impression that the turbine is in full motion. The project encompasses standard Dyalite product, including a combination of leading edge phase control dimmers, HF electronic ballast controllers and relay controllers. Preset scenes are programmed to provide subtle adjustments at predetermined times of day, compensating for changes in ambient light levels.

The lounge's heating system has been integrated onto the Dyalite DyNet network and is controlled using on/off switching via a DDRC820FR relay controller. Sleek DPN flat stainless steel user control panels provide individual room control in each of the luxury marble-lined shower suites, providing the user with the flexibility to adjust lighting to their desired setting.

Overall lighting in the public areas is controlled from reception, via a powerful DTK600 Touch Screen, which incorporates a real time clock, sequencer and customer user control functions. Keyswitch 'lock-out' panels complete the offering, preventing unauthorised changes to system functions.

Sydney's First lounge is the jewel in the Qantas crown, providing unparalleled levels of service and comfort. Dyalite was the system of choice to enhance these surrounds, as the modular building block approach means that each and every system is tailored to meet individual project needs... no wonder Dyalite is considered the intelligent choice. [For more information, go to dyalite-online.com.](http://dyalite-online.com)



DLE1205 DIMMER

NEW PRODUCT

The re-designed DLE1205 is a 12-channel leading edge dimmer with a maximum of 5A per channel and a total device load of 60A. It is suitable for use with incandescent, low voltage, neon and selected fluorescent fixtures. The combination of load capacity, sub-circuit protection and attractive pricing makes it especially suitable for residential and small commercial applications. When used with the Dyalite range of integration accessories, the lighting control system can be integrated into a total smart home solution including security, HVAC, home theatre, blind control and exterior lighting.

As with all current generation Dyalite wall mounted leading edge dimmers, the device employs new 'silent' choke technology. A choke is the common name given to an inductor that is used as a power supply filter element. They are typically gapped iron core units, similar in appearance to a small transformer. The current in an inductor cannot change instantaneously; that is, inductors tend to resist any change in current flow. This makes them good for use as filter elements, as they tend to 'smooth out' the ripples in the phase control voltage waveform.

Typically, iron-core chokes buzz due to the effect of magnetostriction, which causes the core to change shape with flux density and creates audible noise when windings come into direct physical contact with the core. Dyalite has developed a revolutionary way of eliminating this problem by introducing a core cap, which acoustically isolates the core from the winding and results in quiet operation.

This makes the DLE1205 particularly suited to environments where audible noise, or buzzing, is an issue; such as front of house areas in hotels, houses of worship, recording studios or theatres

For further information and full product technical data, go to the Leading Edge Dimmers section of the Product pages on dyalite-online.com and download the data sheet, or contact your local Dyalite distributor.



SEAFARIS SUPERYACHT

Dyalite continues a strong association with luxury superyachts, most recently through specialist designers and installers, Unique Integrations, and the specification of a Dyalite lighting control system on Seafaris, winner of the 2007 World Super yacht award.

Available for charter in far North Queensland on Australia's magnificent Great Barrier Reef, Seafaris sets high standards for ocean going adventure and indulgence. The spectacular 41m catamaran boasts three extravagant guest levels and is equipped with every conceivable technology & amenity; CCTV, distributed audio, structured wiring intranet with both LAN & WAN capability, cinema, gymnasium, library and backlit onyx cocktail bar. To enhance the environment, a Dyalite control system provides scene set functionality, showing off the beautiful interior of the vessel. Impact on

the environment was a factor at the design stage and the Dyalite systems provides energy management capability, ensuring that lighting and consequent energy are not wasted unnecessarily. Unlike many other control systems, Dyalite performs flawlessly on the generator power employed by Seafaris.

An independent panel of judges, comprising superyacht owners and industry professionals, made the award to Seafaris based on 'quality, ease of operation, fulfilment of purpose and ecological impact'. Owner, Jeff McCloy said on accepting the award "Everyone associated with Seafaris can stand proud alongside this award... Seafaris has set new standards. We did things differently and broke new ground, and today everyone else is taking notice." In the high-end world of luxury superyachts, that's quite an achievement. Congratulations to Unique Integrations for their involvement in such a notable and newsworthy project.



FORT CANNING TUNNEL

The S\$34million vehicular Fort Canning Tunnel (FCT) in Singapore took three years to complete and opened in January 2007. Local Dynalite distributor, Te Deum Engineering, supplied a lighting control system for the 350m uni-directional three-lane tunnel, which transports motorists from the Marina Centre to Orchard Road, bypassing two major traffic junctions and cutting travel time from around five minutes to just under twenty seconds.

With a total landmass of just under 700km², space is at a premium in Singapore and the tunnel is located under historic Fort Canning Hill, where the earliest Singaporean colonists settled. This combination of factors made the project a particularly sensitive undertaking. Rather than dig a pit, build a tunnel and re-cover the space with earth, the Land Transport Authority (LTA) resolved to dig straight through the hill, resulting in preservation of trees and surrounding parkland.

Dynalite was chosen for this project as the system provides a robust and easy to implement integration platform for connection to other

vendors systems, in this case a Thorn Lighting photometric camera, and the LTA's supervisory SCADA system.

Tunnel lighting control aims to keep light levels constant as drivers enter the portal and to avoid any drastic changes throughout the length of the passage. Essential elements in this type of application include reliable components, monitoring capability and automatic fault reporting. The FCT Dynalite network consists of 180 channels of feed through relay control provided via 12-channel DIN rail mounted relay devices. The lighting control system switches through nine available preset lighting modes, which correspond with outside light levels as detected by a photometric camera.

A Dynalite DUS704 sensor automatically provides backup photometric data should the primary photometric camera fail. The Dynalite system connects to the LTA's own SCADA system and updates the LTA control centre with system status information, including fault reporting for Dynalite equipment and the photometric camera. A keyswitch user control panel (DPNE808J) alternates the lighting control network from 'automatic' to 'manual' mode, enabling preset changes to be carried out via the SCADA system if required. The lighting control network is compartmentalised into four subsections by DDNG485 optically isolated bridge nodes, to minimise the impact of cabling faults.

For further information, go to dynalite-online.com



AROUND THE CIRCUIT

DYNALITE EUROPE NEWS

Dynalite Europe is pleased to announce the Appointment of Bob Harris as Area Manager for Scotland and North-East England, to assist in the further development of Dynalite's well established and rapidly increasing Lighting Controls Business in these areas.

Bob has gained a wealth of experience in the electrical industry both in the UK and the Middle East having started work as an electrician he then moved into technical sales with electrical manufacturers of Lighting Controls, Energy Management and Power Distribution products. In his new role Bob will focus on increasing sales and technical support to Electrical Consultants,

Electrical Contractors and End Users at the Design, Tender and Installation stages.

As a result of expanding market share in the audio-visual and custom install sector, Dynalite Europe has appointed Phil Hardy as UK Sales Engineer to provide technical and sales support to dealers and distributors. Phil has been working for Dynalite in a technical support and engineering role for the last eight months and his promotion to this role will enable Dynalite to continue providing first class technical sales support to the custom installer and AV dealer whilst also managing the planned expansion of sales.



(above) Area Manager for Dynalite Europe Bob Harris



(above) Dynalite UK Sales Engineer Phil Hardy

With a strong IT and electrical background Phil pursued a career within the lighting industry. For the past three years he has gained experience working for a lighting controls and systems integration company. During this time he has technically managed and delivered many high profile projects.

In his new post he will be actively seeking out custom installers looking to distinguish themselves from their peers in an increasingly competitive marketplace.

2007 DYNALITE EUROPEAN DISTRIBUTOR CONFERENCE

The 2007 Dynalite European Distributor Conference was held in Dublin, Ireland, again drawing a considerable attendance. The annual conference is proving to be an invaluable event, providing an opportunity for first-hand communication between Dynalite distributors from all parts of Europe, as well as an open forum for discussion regarding upcoming Dynalite products and initiatives.



Each year as part of the conference Dynalite presents an award for 'Dynalite European Distributor of the Year' based on outstanding sales performance and this year the honour went to local Irish distributor, SquareOne. Garnett Stewart (right) of SquareOne accepts the award presented by Dynalite European Area Manager, Lucien McQueen.

HARRY WINSTON

Geographic expansion and proximity to clients is central to the growth strategy of US luxury jewellery brand, Harry Winston. It is therefore little wonder that London was chosen as a key European location for a five-story salon opened in July 2006. The New Bond Street site is in the heart of one of the world's true international cities and is considered a vital element of the burgeoning Harry Winston retail network.

Architects, Mark Pinney Associates and lighting designers, Campbell Lighting Design have created a lavish backdrop befitting the decadent nature of the designer jewels. The London salon reflects design concepts honed and perfected in the development of the US stores, staying true to the brand and providing a consistent showcase environment on a global scale. The multi-storey building encompasses ground floor retail sales, first floor private sales and a combination of offices and function rooms on the upper floors.

The prevailing aim of lighting design in a retail setting is to create a space where valued clients feel comfortable, while making the product

appealing. In the case of Harry Winston, Senior Lighting Designer, Stasa Celigoj Sharma and Lighting Design Director, Gary Campbell, used a mix of light sources including low voltage halogen downlights, warm white cold cathode, linear Xenon lights, fibre optic and 250W metal halide downlights to accent architectural and interior detail in a way that complements the product on display. Lighting is intended to integrate with the overall interior design and fittings are concealed where possible. The results are impressive, with a scheme that supplements the opulent store surrounds without overpowering the product and facilitates the creation of a distinct customer experience.

Key to establishing definition of space through use of lighting is the ability to effectively control and direct light. Dyalite equipment was used extensively throughout the installation, providing the designers with the tools required to bring their concept to life and to ensure that it is preserved for years to come. The control system comprises DLE1205 & DLE405 leading edge dimmers, DRC1205 relay controllers and DMC805 multipurpose mixed-load controllers. Perfectly suited to a project where multiple load types are used, the DMC805 offers affordable control of a multitude of sources; incandescent, neon, leading edge electronic transformers, iron core transformers, DSI HF ballasts, DSI low voltage transformers, 1-10V DC HF ballasts and simple switched on/off control; all from one device. Slimline DPWE series panels in a white finish with charcoal buttons provide a stylish user interface in keeping with the store's art deco-inspired design. A tamper-proof DIN-rail mounted DDT001 time clock is located behind the scenes, triggering preset lighting events at particular times of day, maintaining the overall ambience and ensuring that the atmosphere remains consistent with both the aspirations of designers and with client expectation.

Campbell Lighting Design was honoured as winner in the Retail category at the prestigious 2007 Lighting Design Awards for this outstanding project. Dyalite is thrilled to have been associated and to have contributed to such a resounding success.

We extend our congratulations to all involved. For more information, visit dyalite-online.com.

Images courtesy of Mark Pinney Associates and Campbell Design.



DMBC110 & DMRC210

NEW PRODUCT

Lighting control for high-bay fittings has always presented challenges but the advent of the Dynalite DMRC210 2 x 10A fixture coupler provides a welcome change. Designed to allow intelligent, networked control of individual lighting fixtures, the compact design of the unit enables it to be mounted directly within the gear enclosure of the fitting itself. Each device incorporates two relay outputs, which are used to control the mains supply to the fixture and provide an intensity control when used with tapped ballasts. The DMRC210 is perfect for control of high-bay metal halide or sodium fittings commonly used in exhibition spaces, warehouses and distribution centres.

Another product from the same family, the DMBC110 is a one-channel ballast controller with a 10A switched output, used to control mains supply to the fixture, and an additional HF ballast control output selectable to DALI broadcast, 1-10V DC or DSI, which provides dimming control of compatible fluorescent ballasts and transformers.

Both devices incorporate robust relays and are fully rated, making them particularly suitable for use with reactive lighting loads.

For more information on these new developments, visit dynamite-online.com, or email info@dynamite-online.com.



DMRC210

DMBC110

THE DYNALITE DLE220-S

NEW PRODUCT

Recently released, the DLE220-S is a 2 x 20A leading edge dimmer suitable for control of large lighting loads, including incandescent, low voltage, neon and selected fluorescent light sources. It complements Dynalite's multi-channel dimmers by providing extra channels when additional load capacity is required.

The device includes standard Dynalite features including soft start and surge, sag and spike protection, making it perfect for applications where lamp life is critical or where maintenance and lamp replacement is difficult or expensive. Additionally, it is DMX512 compatible, making it useful in theatres and auditoriums. These features make the DLE220-S particularly suited to a hotel environment, where re-lamping of lobby lighting can be inconvenient and where ballrooms often incorporate a theatrical lighting system or control desk, requiring communication with DMX512 lighting protocol.

Fully featured in standard form, the DLE220-S can also be supplied to meet the specific needs of a project through a number of available options including; a second RS485 DyNet/DMX512 port, circuit breaker trip reporting, dual pole or neutral disconnect circuit breakers, an input isolator on the supply, an on-board time clock or multi-function inputs.

For further information and full product technical data, go to the Leading Edge Dimmers section of the Product pages on dynamite-online.com and download the data sheet, or contact your local Dynalite distributor.



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MEMBERSHIPS

