



# Case study

## North Narrabeen Residence

Location  
Philips Lighting

Sydney, Australia  
Philips Dynalite Controls

**PHILIPS**  
dynalite 

## Background

A luxury home in North Narrabeen, Australia is a showcase example of how an intelligent and integrated automation system can be incorporated into a contemporary home without detracting from the contemporary design principles.

## The challenge

The homeowner was keen for all the home technologies to work seamlessly together giving the family complete control over everything from the lights to the home theatre.

While it was important that the system combine power, functionality and ease of operation the homeowner did not want the technology to dominate the simple architecture of the home.

## The solution

Philips Dyalite Dimension Dealer, JFK Audio Visual, designed, supplied, installed and commissioned a home automation system based on a Philips Dyalite backbone to integrate with the home's security, audio-visual systems and to control motorized blinds, floor heating and the front gates.

For convenience and safety, activation of lighting and mechanical functions is also available to the homeowner through the security and audio-visual systems.

In keeping with the requirement to prevent the technology from interfering with the house design, an equipment rack was incorporated into the study to keep all the home automation equipment accessible, centralized and hidden.

The Philips Dyalite lighting system is programmed with a number of preferred lighting scenes for various areas, in order to facilitate set combinations of lighting preferences to suit different activities within the house.

## Products and technology

### Innovative lighting

Recessed halogen down-lights provide illumination for the living area, kitchen, bathrooms, master bedroom and pool area. In addition, three 'Mega Bulbs' pendant lights hang above the island kitchen bench and track lights have been installed in the living room. Further feature lighting above the master bed is achieved through the use of fluorescent tubes mounted in a custom-made fixture.

Recessed fluorescent downlights are provided in the hallways and – in conjunction with two additional compact fluorescent pendant lights – in the study. In the other bedrooms and in the theater, ceiling mounted lights deliver functional lighting, with further feature wall-mounted up-lights in the theatre and children's study area.

A combination of functional and feature lighting is achieved externally by recessed path lights along the entry way, four recessed LEDs in the front deck, up/ down lights between the timber screen along the entrance and side of the property and wall-mounted TOVO spotlights in the courtyard, rear deck area and by the front door.

A seven-inch wall-mounted touchscreen located in the dining room provides the primary user interface to the system, with two additional remote controls to operate the system from other locations around the house.

### Flexible control

The lighting system is controlled over a single network through a combination of leading edge, relay and multipurpose controllers from Philips Dyalite. These are interconnected using Philips Dyalite's sophisticated peer-to-peer communications RS485 network, Dynet and integrated with third-party systems via a Philips Dyalite RS232 interface. A total of 76 channels have been used throughout the house: 24 for dimming; 20 for relay switching; 28 for blind controls; and four for fans.







## Fast facts

### Customer

North Narrabeen Residence

### Location

Sydney, Australia

### Products

DDLE802 Leading Edge Dimmer Controller; DDRC810GL Relay Controller; DDRC810DT-GL Multi-use Relay Controller; DR2PA Revolution Panels, DUS704C Multifunction Sensor; DPMI940 Dry Contact Input Device, DDTC001 Timer Clock and DDNP1501 Network Power Supply

### Lighting Solutions

Energy efficiency and architectural lighting design is achieved with a residence-wide lighting control system to control lighting, heating, cooling, security and audio-visual equipment.

### Dynalite Dimension Dealer

JFK Audio Visual

The inclusion of a Philips Dynalite astronomical time clock allows a number of timed events to occur, primarily for the outdoor lighting. This device tracks daylight hours throughout the year and automatically turns on lighting at dusk. Four LED lights in the internal staircase and upstairs hall are also similarly programmed to turn on at 5pm daily.

A multipurpose sensor located outside the laundry automatically turns on a halogen spotlight above the clothesline and a recessed halogen light in the ceiling outside the laundry door. This sensor also detects movement along the western boundary of the property and acts as a deterrent to intruders.

Stylish Philips Dynalite DR2P Revolution panels provide the local user interfaces for the lighting and blinds throughout the house, with each button custom engraved to match its function. A mixture of faceplate finishes have been used, with white glass complementing the design throughout the house and stainless steel faceplates used in the kitchen to match the stainless splash back.

Seven-button panels were installed to allow flexibility for the future. In instances where only three or four buttons were needed, larger buttons were used to cover the unused openings.

## Benefits

The Philips Dynalite solution has given the homeowner customized and simple control over every aspect of their home with the touch of a button. Importantly, the technology does not detract from the stylish and contemporary design of the home.

The Philips Dynalite control system is flexible, highly functional, intuitive and incredibly easy to use. Now, the homeowner can execute pre-set or customized lighting configurations, as well as more complex multi-system changes quickly and easily.

In fact, with the system taking care of lighting, security, whole-home audio, heating and cooling, their home has become a haven of relaxation and entertainment.

The Dynalite Philips system is also helping the homeowner to save energy and money. The system controls the lighting so it only comes on when needed – and turns off automatically if the room is left empty. Blinds are automated to allow light in but keep heat out. Automated louvers allow ventilation for natural cooling.

It all happens automatically, so the homeowner is saving electricity, gas and water without even having to think about it.

# A Philips Dynalite lighting control system allows complete and simple customization of every aspect of a home.



[www.philips.com/dynalite](http://www.philips.com/dynalite)



Copyright © 2012 Controls, Systems & Services, Philips Lighting, manufactured by WMGD Pty Ltd (ABN 33 097 246 921).

All rights reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use. Publication thereof does not convey nor imply any license under patent – or other industrial or intellectual property rights. Document order number: CS0065 Data subject to change.

For more information, please contact

**lightmoves**

**Melbourne**  
**03 9701 2500**

**Sydney**  
**02 9737 8988**

[info@lightmoves.com.au](mailto:info@lightmoves.com.au)

[www.lightmoves.com.au](http://www.lightmoves.com.au)