



Orchard House

– lighting up a grand London mansion

A sophisticated home automation control system founded on Philips Dynalite technology provides London mansion Orchard House, with unrivalled performance, controllability and energy efficiency.

Orchard House, a truly spectacular eight-bedroom detached residence adjoining Wimbledon Common in South London, has been built to offer top-end house purchasers unparalleled scale and luxury. Orchard House incorporates three floors and features an adjoining indoor swimming pool and spa complex, as well as a multiple car garage and a security lodge. It is also

equipped with its own cinema room and library, along with four separate living rooms and separate staff accommodation.

The fully automated Philips Dynalite system controls the lighting circuits, along with the airconditioning, under-floor heating and gas fires in the main living rooms. The easy-to-use control system dramatically simplifies the operation of the 'smart home'.

PHILIPS
dynalite 



Client requirements

Convenience and flexibility

Home automation and electrical specialists, SDS of Meopham Green, Kent, were engaged to create a fully automated home which provides the occupant with convenience and flexibility. The facilities required included multi-room audio-visual systems and a fully equipped modern home cinema with one-button touch control and bathroom-tile

televisions. Philips Dynalite's intelligent mood lighting and climate control system provided the most capable solution for ultimate automation control throughout the property.

The requirement for this magnificent house was to exceed the expectations of even the most discerning customer; thus the whole property has incorporated the very latest smart home technology.

The Philips Dynalite solution

Instant mood lighting

A colour touchscreen control panel for the Philips Dynalite system is located at the entrance to the building. The screen displays, in a schematic form the layout of the building on a floor-by-floor basis. Together, the schematic and an LED status display, enable the user to control and adjust the lighting in each of the rooms, as well as the pool area, sauna and steam rooms.

Each of the controllers on the main control panel can be used to raise or lower the level of light, allowing the user to create their required ambience or mood-lighting combination. These 'mood settings' can be recalled at the press of a single button. Alternatively, the operator can alter

the settings via the touchscreen to reflect their current mood. For convenience, the keypad has incorporated a 'goodbye' mode, which turns off all the lighting circuits and a 'hello mode', which turns on the set lighting scene.

Environmental design that saves energy

The lighting control system has been programmed to operate all of the dimmed lighting circuits at 95 per cent, in order to reduce energy wastage and to save lamp life. This includes the LED spotlights in each of the eight ensuite bathrooms. Ballast controllers have been incorporated into the design to enable the Philips Dynalite system to dim all the circuits, including cold-cathode varieties.

Products and technology used

Each of the house's climate-control systems is fully integrated into the Philips Dyalite network, including the under-floor water heating system and airconditioning system which is integrated via a LonWorks interface. This solution enables the heating and airconditioning systems to be linked to Philips Dyalite's organic light-emitting diode (OLED) displays that are built in to the control panels. These OLEDs feature a dynamic text display and have been specifically developed for applications where environmental controls are integrated with Philips Dyalite control systems.

Within the indoor swimming pool area the Philips Dyalite system is used to control the cold-cathode bulkhead lighting, which has been installed around the pool's perimeter. This cold-cathode lighting is concealed in troughs with down lights positioned below to create an attractive 'V' shaped lighting effect that 'wall washes' the polished plaster walls. The lighting system has also been used to control the ceiling-mounted fibre optics, which replicates the sparkle of stars in the night sky.



Key client benefits

Philips Dyalite technology has delivered Orchard House unrivalled levels of luxury and convenience through the sophisticated control of lighting circuits, airconditioning, under-floor heating, multi-room audio-visual systems and gas fires.

- A Philips Dyalite control panel with OLED display can be used to raise or lower the level of light, allowing users to create ambience and mood-lighting combinations.
- All of Orchard House's dimmed lighting circuits are programmed to operate at 95 per cent, in order to reduce energy wastage and to save lamp life.
- Touchscreen control settings including 'hello' and 'goodbye' modes which alternatively turn on or off all of the lighting circuits.
- The Philips Dyalite system is used to control the cold-cathode lighting in the indoor swimming pool area.

Increasingly, home automation and lighting management are becoming more important in the residential building and construction sector. Orchard House is an outstanding example of smart home technology at its best.

“ Orchard House sets a new benchmark for smart home systems. ”

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