Intelligent hotels

Advanced systems for the complete hotel solution
Promoting guest comfort, brand differentiation and operational efficiency
Today, hotel guests expect a superior home away from home experience whilst staying in all levels of accommodation. And increasingly, guests want to take control of all aspects of their stay with the touch of a button. Operators want to deliver on the experience to build loyalty and enjoy premium returns, by reducing both capital and operating expenditure.
The Philips Dynalite control system offers guests the convenience of controlling multiple functions in their room with one easy-to-use interface, giving them the ability to create an environment perfectly suited for their stay.

Importantly, the system also gives hotel staff and management control of every aspect of a hotel environment including guest rooms and public areas to help reduce labor costs, improve service, optimize facility usage and save energy. All this, adding up to improved guest satisfaction and brand loyalty.

Discover how Philips can design and install a system that is economical, flexible, sophisticated and simple-to-use in your hotel.

Global hotel projects utilizing the Dynalite system include:

- Ningbo Park Hyatt (China)
- Sydney Park Hyatt (Australia)
- Rockliffe Hall (UK)
- The Star (Australia)
- The Scarlett Hotel (UK)

To read more about our global projects, see pages 11-15.
The clever control system at work

Conference and business facilities
The Philips Dynalite system introduces an extra dimension to meetings and conferences with flexible solutions and energy-efficient lighting that provides the appropriate illumination at a reduced cost.

Ballrooms – versatile and theatrical
The Philips Dynalite system supports “room join”, which automatically links multiple rooms and allows them to be controlled from one central point. In any ballroom, it is very important to set the right mood for the occasion. The lighting control system can coordinate multiple lighting groups to work together ensuring seamless changes between scenes and theatrical effects.

Façades
The Philips Dynalite control system can create dynamic and memorable lighting effects that complement a hotel’s façade and make a positive and lasting impression on guests.

Lobbies – for dramatic first impressions
Lighting plays a pivotal role in creating a striking and welcoming hotel lobby. The system can automatically run a work schedule for the area to control the lighting throughout the day to ensure the lobby is always welcoming. By adding an additional light level sensor, the control system automatically reduces energy consumption by dimming lighting levels when there is sufficient daylight to maintain a pleasant environment.

Outdoor areas
The Philips Dynalite system delivers decorative and original lighting effects to enhance outdoor areas such as gardens and courtyards.

Health and wellness areas
Gyms, saunas, swimming pools, hairdressers and beauty salons are standard features in hotels today. The Philips Dynalite control system delivers innovative lighting scenarios to create the desired ambience and help make guests feel as relaxed as possible.

Car parks
The car park is often one of the first places where guests experience a hotel so it’s important that it feels welcoming and safe. The Philips Dynalite system optimizes lighting and controls energy costs, while still enhancing guest comfort and safety.
Behind the scenes – the benefits of energy management

A Philips Dynalite system can effectively save energy in back-of-house areas including kitchens and staffing areas by automatically turning off lighting in areas that are not in use.

A clever combination of a timeclock and motion sensors can effectively reduce running costs while still providing the right level of lighting for staff to carry out their duties.

The centralized monitoring and control system offers additional benefits in security, through remote override capabilities.

Restaurants – creating exceptional ambience

For any restaurant that wants to deliver a truly unique dining experience, the lighting atmosphere is crucial.

The system supports a range of load controllers to drive the various lamp types and can also automatically adjust blinds and awnings. The system can run automatically from timed events and light level sensors.

Touchscreens allow for multiple points of control from one location to set up the perfect scene.
Dynalite’s refined guest room management system (GRMS) offers a highly flexible, yet simple to design-in and install, guest room control solution. The carefully crafted design of the Dynalite GRMS targets identified guest expectations in room comfort, functionality, and operability – whether for business or luxury accommodations.

The GRMS allows hotel operators to invest in a room control solution that is capable of both increasing hotel loyalty and reducing overall operating costs. Additionally through the integration capabilities of the GRMS, operators can tie guest rooms into existing property management systems, building management systems, access control solutions, or other third-party devices requiring control.

The Philips Dynalite Guest Room Management System offers guests the convenience of controlling multiple functions in their room such as lighting, temperature, curtains and blinds with one easy-to-use interface. With the same interface, your guests can make requests for privacy, housekeeping and room service, giving them the unprecedented ability to create an environment and experience, perfectly suited for their stay.

The system also gives hotel staff and management the possibility to save energy, identify room status and receive guest requests. All this adds up to improved guest satisfaction and brand loyalty.

The GRMS solution is economical, flexible and simple-to-use so individual hotels can customize a solution to suit their guests’ needs.

Energy is the fastest growing operating cost in hotels

Room Energy 75%

Other Energy 25%

Energy reductions with GRMS solutions of 20-45% are possible

*(US) EPA has found that a 10% reduction in energy consumption would be equivalent to increasing RevPAR by more than $2.00 for full-service hotels. Improving hotel energy performance reduces operating costs, benefiting your bottom line and leaving more money to invest in further improvements that can lead to enhanced guest satisfaction.

*Source: (US) EPA Hospitality: Looking for Energy Solutions
The Philips Dynalite hotel control system comprehensively enables the management of guest comfort and hotel efficiency. Here is an outline of just some of the GRMS key capabilities.

**Bedside panel**
The bedside panels allow the guest to set the desired lighting scene for the entire suite and control the bedside lighting, the 'Do not disturb' and the 'Goodnight' functions and the window dressings such as curtains and blinds.

**Air conditioning control**
Integrating the air conditioning system to the GRMS allows the hotel to reduce unnecessary energy consumption. Guests can view and set the temperature level in the room and fan speed from the same panel they use to control the lighting.

**Room entry**
Once inside, the guest enters the room card key into the card holder or presses a 'Welcome' scene button on a panel. This then triggers multiple functions automatically such as 'Open blinds', 'Adjust thermostat to previous set level' and 'Turn on lighting'.

When the guest leaves the room, taking the card key with them or pressing the 'Goodbye' scene button, the room will automatically perform a shut down energy-saving sequence after a delay.

**Check-out integration**
The room can also be set in vacant mode when the guest checks out. Vacant mode can turn off the air conditioning to save energy and close the window dressings to insulate the room.

**Integration with the BMS system**
Networking the rooms to the hotel BMS allows staff to override room control.

The hotel's energy usage levels may be monitored, allowing the system to adjust settings to meet energy usage targets.

A fully networked hotel system can also be automated to turn on all room and public area lighting in case of a fire. In addition, exits on each floor could be set to brighter levels.

**Outside the room**
A user interface control panel outside the guest room can be used to indicate to hotel staff the room status, for example, 'make up room', 'do not disturb' or 'laundry pick-up required'.

**Window dressing control**
Guests can control curtains/blinds from the same panel that provides the lighting scenes and air conditioning control. This control can also be programmed to open the curtains when the wake up scene is selected.

**Detecting guest requirements**
Motion detection within the bathroom prevents guests searching for control panels in the dark. The operation of the sensor can allow different functionalities between night and day. For example, if occupancy is detected in the bathroom for the first time during the night, the lighting will slowly ramp up to a low level, allowing guests to adjust.
Supporting an IP22 rating allows for the network panels to be installed within the bathroom which allows for the guest to make changes to the automated system without leaving the room.

From the bedside panels, guests can select lighting scenes, set their room status and can select ‘Master On/Off’. The built-in proximity sensor can be used to trigger the room ‘Master On’ function, so the guest room lights up.

Every element of the room from the lighting, blinds, HVAC and AV can be integrated into the one control system, allowing for the guest to quickly and simply set the room to their liking.

Local control panels can be used to perform multiple functions from the press of a single button. When leaving the room, guests can press the ‘make up room’ option which after a short delay, will shut down all lighting in the room and close the blinds.

Bathroom privacy screen can be integrated into the system.

All room control panels are available in the same style and finish giving a consistent look throughout the room. Scene setting allows the guest to select a mood for their room, with the press of a single button. This will adjust the level of multiple light groups to pre-selected levels.

Blinds can be integrated into the system.

“Solutions that were once only seen in the most elite and expensive hotel rooms are now affordable”
User Interfaces – redefining the guest experience

Philips Dynalite has a number of user interface panel options that have been designed to match all interior design requirements and budgets. This means for all levels of guest room control there is a solution to suit.

Each AntumbrA and Revolution user interface panel can be engraved or labeled with words or icons to help explain the functions of each button and this can be rolled out across a hotel network.

Load controllers for any situation

Philips Dynalite controllers have evolved to be the industry leaders in hotel environments offering unsurpassed reliability and flexibility. They are designed and built to support the very latest features including:

- Smooth flicker-free LED dimming
- True voltage regulation for extending lamp life, which reduces ongoing maintenance cost
- Compact
- Easy to install and maintain
- Out-of-the-box functionality
- Imbedded system-wide network solution

The very latest evolution of GRMS controllers for lighting (including LED, fluorescent, incandescent and DMX control), blinds, curtains and climate control has been designed to achieve a wealth of control and scene setting possibilities for the guest room.

Philips Dynalite’s GRMS™ offering does not utilize multiple controller units but a single dedicated unit into which we have built all the necessary room functionality. This makes the GRMS controller solution more cost effective. As it can come out of the factory pre-programed, it also removes the need for expensive on-site commissioning costs.

Our Intelligent control products offer unrivalled performance, reliability and versatility

*Please check with your local Philips Representative about the availability of the AntumbrADisplay in your region.

Left: The AntumbrADisplay® interface panel.
Right: The Revolution series interface panel.
Philips Dynalite offers two different guest room of control products:

**GRMS10** – Provides an effective and cost competitive method of automation and control for hotel rooms. Enables switching of multiple lighting groups, HVAC, power outlets and blind control from third-party or Dynalite user interface panels, to suits the hotels décor.

**GRMSPLUS** – Offers a complete room automation and integration solution. Supporting LED dimming of multiple lighting groups, multiple blind control, switching automation and control of color changing lighting though DMX. Used in conjunction with Dynalite network user interfaces, enables the display of system information. It has a built-in port for integrating to the hotel BMS, allows for the setting of the room status and reporting current guest requirements for hotel services.

Both options facilitate energy-saving, are scalable in design, and allow for additional functionality or integration to other building or property managements systems at a later date.

Typically, each hotel room will require just one controller; dedicated to a certain set of functions and features.

Both units can be used in conjunction with any other Dynalite network devices allowing for unlimited scalability of functions, to meet any projects functional requirements.

1 GRMS may be unavailable in some regions. Check with your local Philips Sales Representative.

**EnvisionManager**

Monitoring and management software for lighting that increases efficiency, reduces operating costs and increases performance.

EnvisionManager provides global control and monitoring of the hotel lighting system. You can run automated and manual commands to easily change the operation of the system or produce performance reports. The lighting system can then be optimized to respond to the needs of occupants while ensuring energy is not wasted.

**EnvisionManager key features**

- Live energy performance monitoring display.
- Control of the entire lighting system on one screen.
- Macro builder allowing end-users to tailor the operation of the system to their own needs.
- Real-time monitoring of hardware performance.
- Control of scheduling, reports, DALI emergency testing, occupancy and specific events, such as Earth Hour;
- Performance monitoring of all lamps and ballasts, with an alert function to notify of any component fault.

**Hotel-wide control and integration**

The control system can be integrated to the hotel’s management system allowing staff to see the real-time status of a room from occupancy to guest needs and requests. This allows staff to execute their tasks more efficiently.

Within the room, a guest can indicate to staff if the room needs to be made up, if there is dry cleaning to be picked up, trigger an alarm for emergencies or opt for ‘do not disturb’.

Staff can monitor and control HVAC based on occupancy to reduce energy costs, attend to guest requests instantly for improved service, fast cool rooms for comfort when the guest checks in and monitor guest departure for cleaning service.

In practical terms, this means housekeeping doesn’t disturb guests and HVAC and lighting are never wasting energy in unoccupied rooms.

This clever system can automatically switch off all lighting, turn the climate control system to a more economic level and close the blinds as soon as the guest checks out.

**Integration into BMS**

Networking the rooms to the hotel BMS allows staff to view the room status and override room control.

The hotel’s energy usage can be constantly monitored allowing the system to adjust the current settings to meet energy usage targets.

A fully networked hotel system can also be configured to turn on all room and public area lighting in case of a fire. In addition, exits on each floor could all be instantly lit to brighter levels.

**Luminaires**

Philips has an extensive range of luminaires that allow a complete turn-key guest room package to be specified for any brand or custom need. Please contact your local Philips Sales Representative to discuss your vision.

“This intuitive control system provides your guests with a personalized experience”
An energy-efficient system that is easy to use

The Park Hyatt Resort and Spa in Ningbo, has been designed as a spa retreat with a world-class suite of treatment rooms.

Much of the opulent atmosphere experienced by guests has been achieved through the use of a Philips Dynalite control system. The design criteria for the lighting and automation control system encompass the concepts of comfort, ease of control, flexibility and energy efficiency.

The Philips Dynalite control system manages lighting, heating and curtain/blind controls across all three floors of the 100,000 square-meter area, throughout the public areas of the hotel and in each of the 236 guest rooms.

When the guest leaves the room for the day, the curtains close automatically to help stabilize the temperature, while the lights are turned off and the heating/cooling settings minimized to reduce unnecessary energy expenditure.

Daylight harvesting strategies have been used throughout the public areas of the hotel as well as in the guest rooms to balance the available light and reduce energy usage.

A Dynalite control platform for lighting alone can save 30 per cent off typical lighting costs. With additional HVAC integration, these savings can be as high as 50 or 60 per cent.
CASE STUDY

Park Hyatt
Sydney, Australia

A warmer, cosier lighting ambience

When Park Hyatt Sydney decided to extensively renovate its landmark hotel on Sydney’s waterfront, it wanted a lighting solution that would complement this breathtaking location, as well as its new architecture and interior design.

The solution includes seamless integration to third-party systems within the hotel – such as the fire control system, motorized blinds and the AMX AV equipment. The system enables intuitive control of hotel lighting scenes through wall mounted panels or through handheld devices. Philips provided lighting controls for the back-of-house and common guest areas of the hotel, including the main foyer, ballroom, restaurant, the pool area, lift lobbies and gym.

The hotel’s lighting emulates natural light levels, such that at times of the day when there is less light outside, the hotel’s lighting system is set to deliver a warmer, cosier lighting ambience.
Where lighting versatility complements grandeur

Rockcliffe Hall near Darlington, County Durham, England has been carefully restored and extended to create a luxury hotel, spa and golf course while retaining the grandeur of its 1700s heritage.

The Philips Dynalite DALI system made each individual luminaire addressable, so there are no circuit limitations and the possibilities are almost unlimited. Rather than having to plan everything months in advance before the cabling began, the team were able to fine-tune the lighting scenes on-site.

The lighting management system can control a range of different light sources, including LEDs, fluorescent, tungsten halogen and metal halide. Control of the lighting scenes is through master control panels in management locations.

Meanwhile, in guest rooms there are simple, custom-engraved panels that enable guests to choose their preferred lighting scene.

Energy saving features of the system include presence detection in areas of variable occupancy and daylight harvesting.

“Philips Dynalite has provided a flexible and adaptable energy-saving solution for superior lighting control.”
CASE STUDY

The Star
Sydney, Australia

Shines with advanced lighting control system

The project included renovating the casino, building a six-star hotel, refurbishing the existing 480-room hotel as well as a lighting upgrade across both hotels, the casino and the façades and external public areas.

The Philips Dynalite system communicates with the controllers in each room for the internal services, including door lock, air conditioning and audio-visual control.

When a guest enters the room they can choose a lighting scene from a wall panel – either a morning or an afternoon scene by simply pressing a button. There are also motion detector sensors in each room and if no movement is detected for a certain period of time, the system turns the lights off which saves energy. Guests can also control the blinds, temperature and entertainment, with one single button.

The intelligent design of the system has made it possible to deliver secure lighting on casino floors, ambient lighting in hotel rooms and restaurants and dramatic façade lighting all linked to one easy to control system that delivers operational efficiency.
The Scarlett Hotel
Cornwall, UK

Where glamour and green meet
The Scarlet is a luxury eco-hotel in Cornwall, England that demonstrates that luxury and environmental sustainability can go hand-in-hand.

The hotel’s fluorescent and LED circuits are controlled by Philips Dynalite’s reliable and versatile relay and ballast controllers. The backbone to the lighting control system is Dynalite’s sophisticated communications serial bus network, DyNet.

Universal sensors help ensure that lighting is only activated when areas such as the library are occupied and when ambient light levels fall below a set threshold level.

Two touchscreen control panels allow the lighting moods of the public areas to be set by the hotel staff. Each guest room has two engraved and backlit control panels that allow guests to match their mood from a choice of seven lighting scenes – ‘ambient’, ‘bright’, ‘relax’, ‘bath’, ‘night’, ‘balcony’ and ‘all off’.

The Philips Dynalite lighting system has achieved an incredible internal lighting efficacy of just 3.36 watts per square meter – representing just 34 per cent of the energy use of a conventional design.