Guest Room

The Guest Environment

Room comfort control solutions

Mechanical and electrical services play an essential part in the overall guest experience. Lighting, heating, cooling, ventilation and shading are all paramount in maximising guest comfort during their stay.

However, without the appropriate control solution in place, the guest will have an unsatisfactory experience, and the operator incurs unnecessary maintenance, running costs and energy consumption.

iLight takes hold of these electrical and mechanical services, invisibly addressing the complexity and providing the guest with holistic and intuitive control.

Through seamless integration and automation control, the operator enhances their guest's experience, generates operational efficiencies and can achieve substantial energy savings.

Intelligence beyond illumination

What an iLight solution achieves

Intuitive guest-centric control, core to the iLight solution is:
- Simplifying guest control of the built environment
- Ensuring friction, touch points and unnecessary interactions are minimised

Efficiency through single solution enables:
- Tangible energy efficiencies through 'profiling' all elements of the guest environment
- Centrally managed control of power, lighting, heating, cooling, ventilation and shading

Robust and reliable real-time insights provide:
- Proactive management of guest needs, their comfort levels and satisfaction
- Practical intervention when needed with notifications providing up to the minute status of mechanical and electrical assets.
- Promote sustainability through intelligent management of energy.

Building wide

Complete room control & building wide integration

Meeting the ever-increasing demand for system connectivity, iLight provides a complete room comfort solution with fully integrated lighting, shading and climate control.

Our robust control networks underpin integrations with other building services utilising industry standard BACnet MS/TP and IP communication protocols.

By integrating with other building systems the Operator is afforded complete flexibility and control of all elements of the guest environment. This results in a solution which delivers the best possible user experience while improving energy efficiency and serviceability.

Room occupancy and system data can be accessed centrally with ease, providing Owners valuable insights into guest's trends and behaviours. These insights can be used to drive enhancements and personalisation of the guest environment.

Features & Benefits

Superior Guest Experience
- Intuitive user interaction
- Consistent 'user focused' control
- Enhanced guest comfort

Simplified Operations
- Room status and notifications
- Occupancy status and control
- 'DND' Do not Disturb & 'MUR' Make up room

Efficient Maintenance & Facility management
- Energy efficiencies, room profiling and safeguards
- Preventative maintenance
- Up to the minute status & notifications
- Simplified integration to building management systems

Hotel Management
- Occupancy Status
- Room Status
- Room Management
- Property Management

Guest Room
- Lighting Control
- Shading Control
- Climate Control
- Room Status
- Advanced Integration
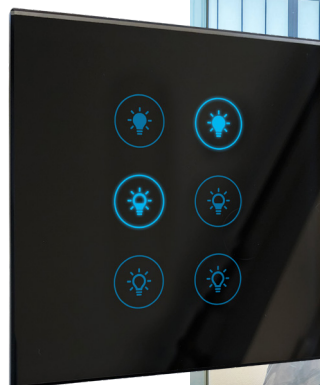- App Control

Lighting Control

iLight has a 20+ year history of providing unparalleled lighting control capabilities.

- Room lighting profiles for sold, unsold, occupied etc
- Control of all industry lighting control protocols
- Scene recall as standard
- Simple lighting level modification
- User editable scenes where required
- Control and overrides on any element of the room lighting
- Occupancy sensors can be used to enable night lights, guide lights or bathroom lighting for an elevated guest experience

Shading Control

Shading plays a key role in the comfort and energy efficiency of a space.

iLight provides:

- Room shading profiles for sold, unsold, occupied room states.
- Controls all industry standard blinds, curtains and shading solutions
- External inputs for solar or thermal shading protection
- User control and overrides

Climate Control 🌡°C

With advanced climate control capabilities, a dedicated Fan Coil Controller or 3rd party HVAC integration, iLight offers a comprehensive solution including:

- User mode, fan and temperature control
- ECO 'green energy' mode
- Fabric protection, both high and low
- Door/Window contact
- Humidity control
- Room comfort profiles for sold, unsold and occupied
- Native support for cooling only, heating only or combined Heating & Cooling systems
- Adjustable fan control can also be configured to present ON/OFF, 2 or 3 speeds + Auto.

Room Status 🚪🚪

iLight has a command set tailored to guest room status and control. This ensures maximum comfort and convenience for guests and up to the minute data for hotel operators.

- Occupancy – derived from key card entry, room PIR detectors and button triggers.
- Key card entry – power enable
- DND – Do not disturb / MUR – Make Up Room
- Doorbell enable/disable and groups
- Door/Window contact inputs
- Other inputs such as fridge or safe that can be made available to an operator.

Room Automation ⚙️

Key Card Entry
Should it be required iLight enables simple connection of a dedicated key card switch. Enabling room power to be isolated when the room is unoccupied.

Window and Balcony Door contact closures
By adding contact sensors to any window and balcony door, the HVAC can be disabled automatically. This feature can save significant energy if they windows or doors are left open whilst a guest is away, and the room 'unoccupied'.

Fabric Protect Profile
While a room is either Unoccupied or Unsold, energy used by the HVAC can be further reduced.

The room and its contents can be protected from damage by setting 'Fabric Protect profiles' for high and low temperature thresholds. The temperature limits can be adjusted depending on the building location/climate and even by season.

Advanced integration and Control ⚙️

iLight provides extensive integration opportunities to ensure the maximum benefit can be achieved from our connected lighting solutions.

Added to the broad range of capabilities, gateways or integrations can provide:
- User app control, simply scanning a QR code to gain instantaneous control.
- Open Protocol BACnet/IP integrations
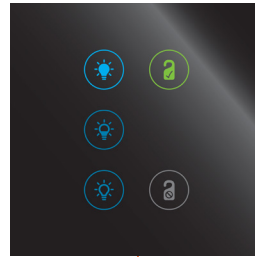- External control of the guest environment
- API integrations

Guest Interaction

With the iLight range of user interfaces

iLight user interfaces bring together contemporary design with intuitive user control. Our dedicated portfolio includes lighting, shading and climate controls as well as door bell, room numbers and guest room status 'make up room' (MUR) and 'do not disturb' (DND). User interfaces can be fully customised to include corporate branding and a wide choice of iconography for a language agnostic solution.

Verre - Room Entrance
For adjusting lighting and setting room status preference (MUR/DND)
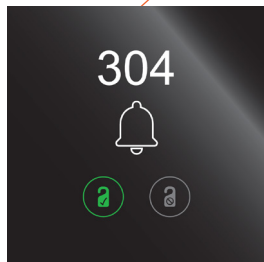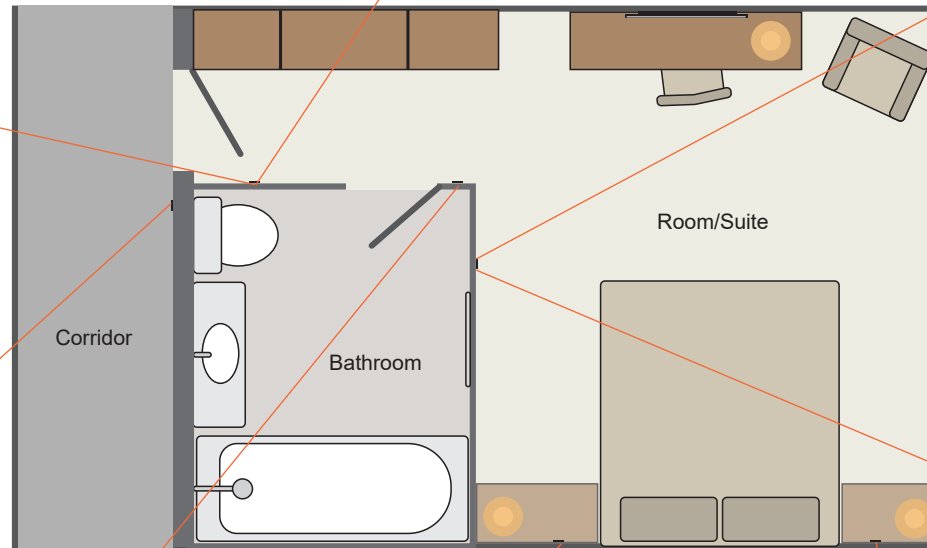
TSEtouch
Powerful touchscreen user interfaces providing central control of lighting, shading and climate settings as well as setting room status
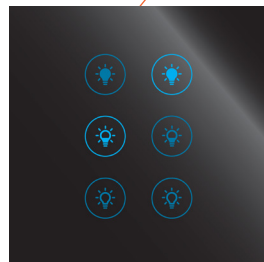
Key Card
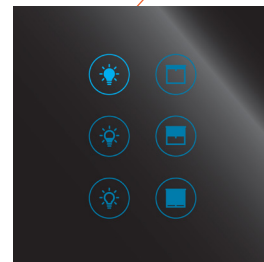Activates power to the room and triggers occupancy

Corridor

Bathroom

Room/Suite

Verre - Bell and Room Status
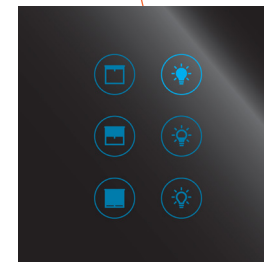With an active door bell and room status display (MUR/DND)

Verre - Lighting
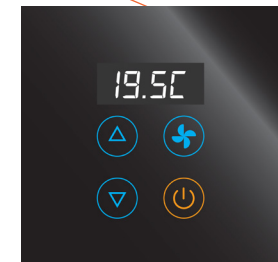2 Zone of lighting for controlling main room and bathroom lighting

Verre - Lighting & Shading
3 lighting scenes and shading open, stop and close – Left Handed

Verre - Lighting & Shading
3 lighting scenes and shading open, stop and close – Right Handed

Verre - Climate
Operating mode, fan speed and temperature control with set point display

Typical Room configuration

Controller Building Blocks

iLight Room Controllers

iLight offer a wide array of source controllers to meet the needs of even the most sophisticated hotel guest room or suite. By combining various controllers from the portfolio, any lighting design can be accommodated, any load controlled alongside comprehensive climate, occupancy and shading control.
These can be housed in our dedicated range of control enclosures, pre-wired and pre-populated for a complete room control solution.
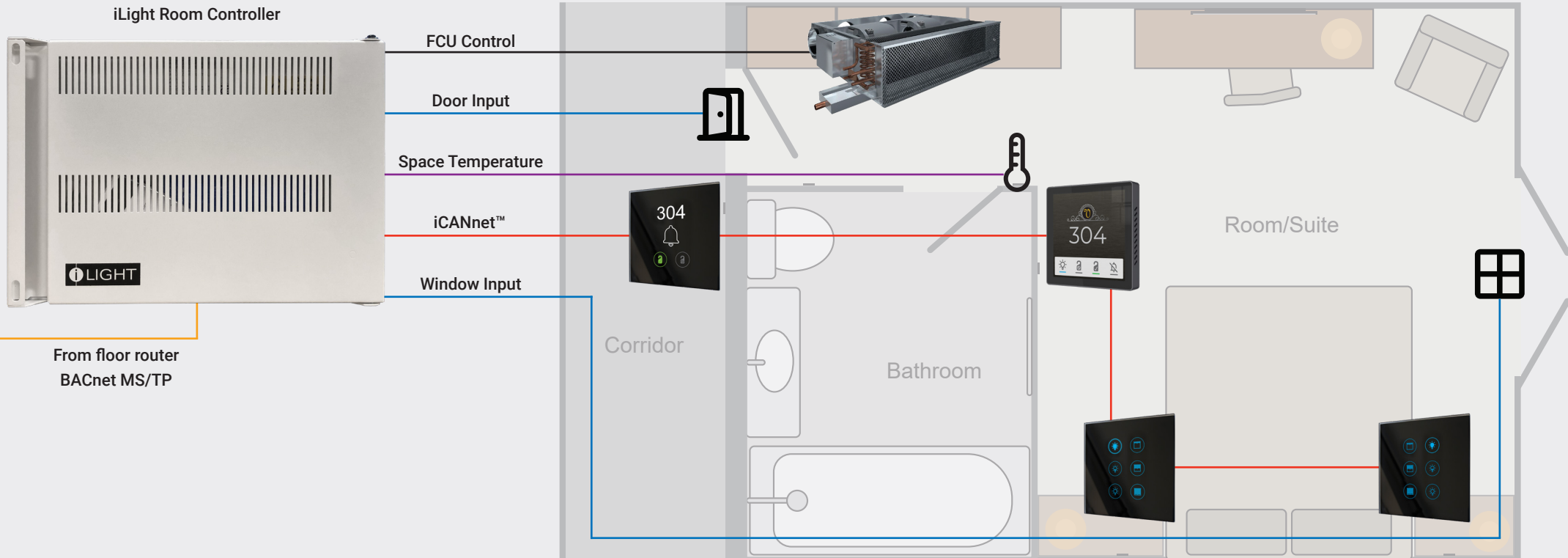
Control Options

- Adaptive phase dimming
- DALI broadcast and 0-10V dimming
- Fully addressable DALI
- Switching control
- Dedicated shading control
- Local volt free inputs for window & door contacts or other local inputs
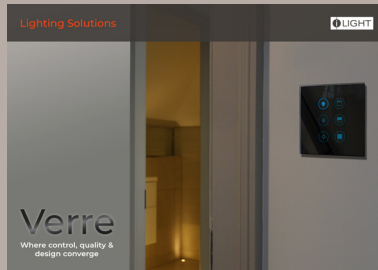- BACnet MS/TP & IP
- Ethernet Gateways

Native fancoil control

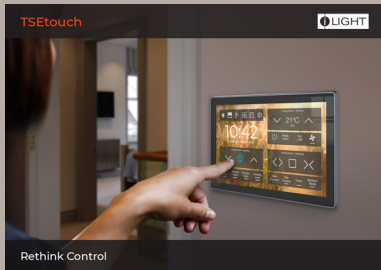- Fan Control (Relays or 0-10V EC fan)
- Fan Enable Relay
- Heating/Cooling Actuator Control (0-10V or 24V)
- Temperature sensor inputs (return air, supply air, space temperature)
- Additional input for humidity and condensate sensors

iLight Room Controller

FCU Control

Door Input

Space Temperature

iCANnet™

Window Input

From floor router
BACnet MS/TP

304

304

Room/Suite

Corridor

Bathroom

Related iLight literature

TSEtouch

Rethink Control

Lighting Solutions

iLight Product Catalogue

English - Issue 8.9

Lighting Solutions

Verre

Where control, quality & design converge

Lighting Solutions

iCANnet System Integration

System integration devices for wider network capabilities

Lighting Solutions

iLight Enterprise DALI Solutions

For comfortable, intelligent, efficient buildings

Lighting Solutions

SCMA0401 Adaptive Dimmer

Simplifying the control of LED lamps

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