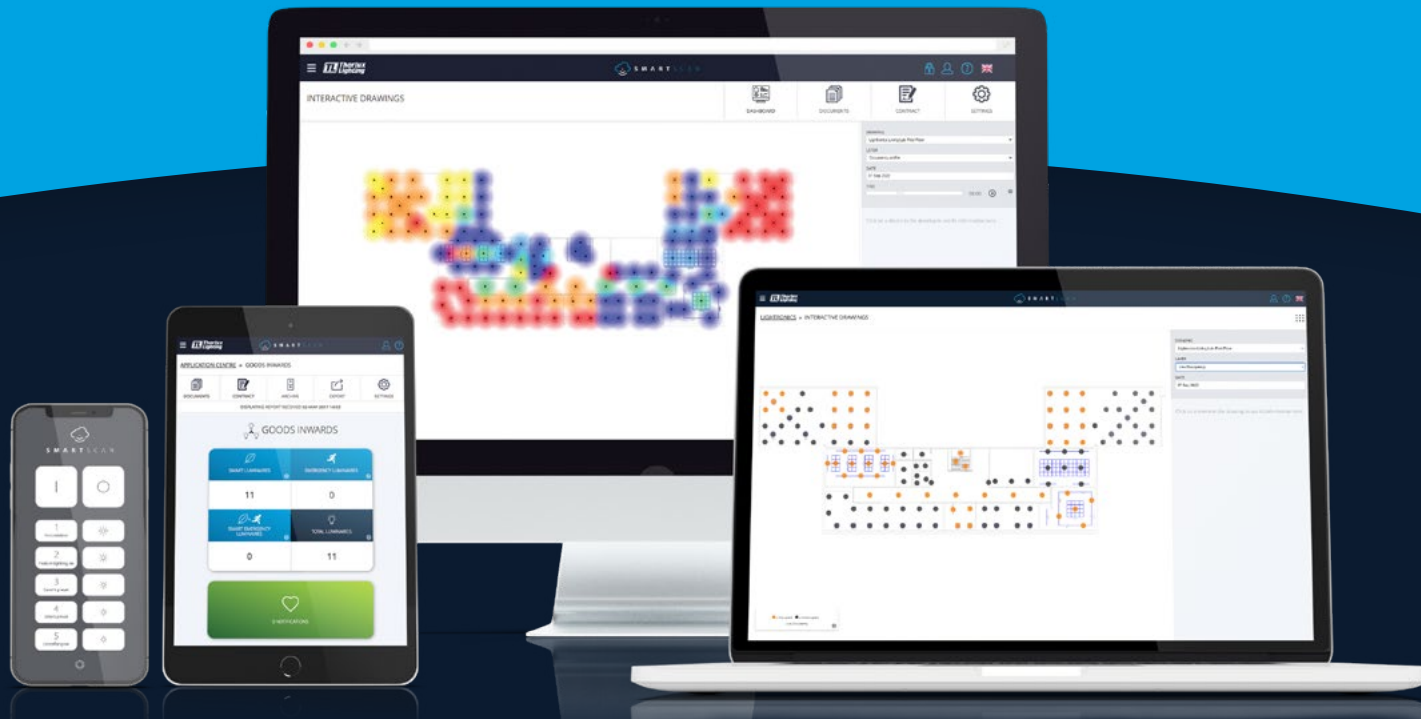




SMARTSCAN

WIRELESS LIGHTING MANAGEMENT SYSTEM



SYSTEM OVERVIEW

Thorlux



SmartScan is a revolutionary wireless lighting management system that maximises energy savings and automates emergency lighting testing and record keeping.

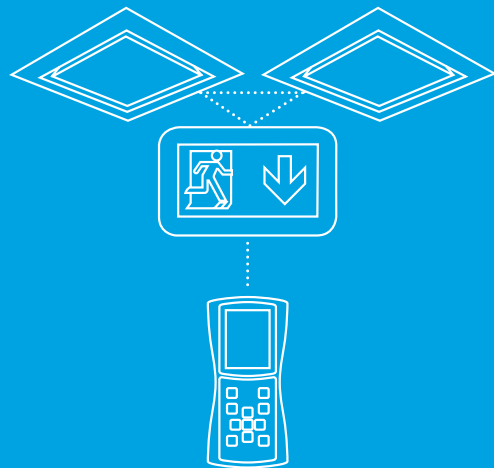
The system allows users to monitor their energy performance data and complete operational information for all SmartScan standard and emergency luminaires.

Information is displayed on the SmartScan Website which can be accessed from anywhere using a computer, laptop, tablet or smartphone. The clear graphical user interface provides an overview of the whole site, through to the performance and operation of an individual luminaire.



Her Majesty Queen Elizabeth II selected Thorlux Lighting as a winner of the Queen's Award for Enterprise: Innovation, for the SmartScan lighting management system.

WHAT IS SMARTSCAN?



SmartScan is available in two platforms:

Platform 1

Luminaires operate on a stand-alone basis: SmartScan luminaires link wirelessly in groups for presence detection and scene setting. Energy performance data and operational status information can be retrieved using the SmartScan Programmer.

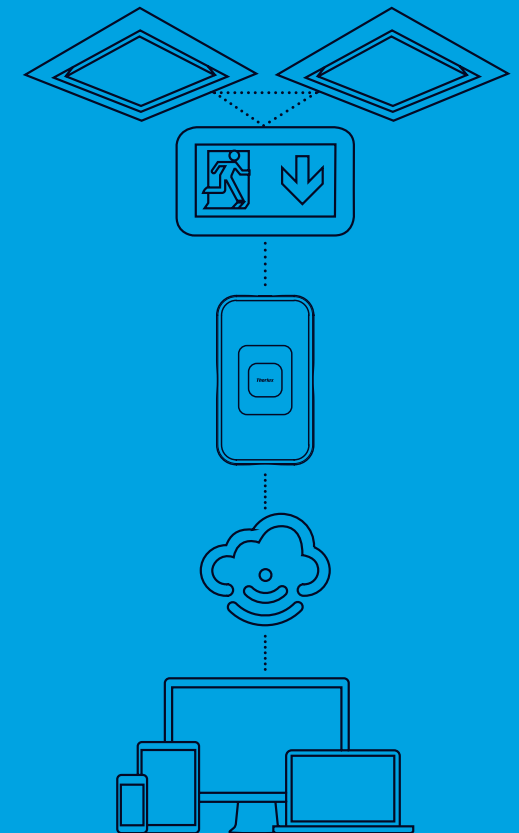
Emergency luminaires are self-test with the addition that operational status, and most recent emergency test information, can be retrieved using the SmartScan Programmer.

Projects initially installed to Platform 1 can easily be upgraded later to Platform 2 by installing a SmartScan Gateway.

Platform 2

The luminaires are simply wirelessly linked into a Gateway which collects and transmits their energy performance data and complete operational information, for all SmartScan luminaires, to the SmartScan Website for viewing using tablets, smartphones, laptops and computers.

The SmartScan Gateway simply requires a 230V mains supply to operate as all communication is via a secure MQTT GSM connection.



SMARTSCAN OVERVIEW



SMARTSCAN



SMARTSCAN INTERNAL

Integrated intelligent lighting management maximising energy savings for internal applications through movement detection and daylight sensing with convenient user control.



SMARTSCAN EXTERNAL

Integrated intelligent lighting management maximising energy savings for external applications through movement detection and daylight switching with timed override via the SmartScan Website.



SMARTSCAN RADAR

High frequency sensor technology built onto the LED light engine for applications where the luminaire aesthetics and impact rating are important factors. Maximising energy saving through presence detection, photocell control and user control timed override via the SmartScan Website.



SMARTSCAN EMERGENCY

Self-testing emergency luminaires with centralised, web-based testing and reporting options to ensure compliance with local standards.

LIGHTING MANAGEMENT



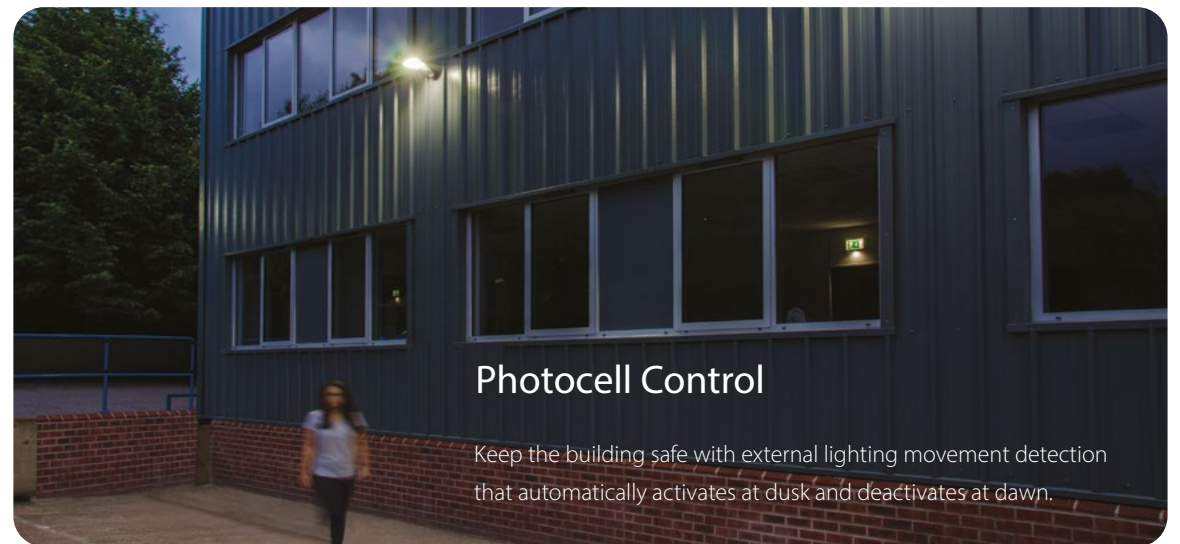
Daylight Dimming

Minimise energy usage with lighting that automatically dims when there is enough natural daylight to maintain the required light level.



Maintained Illuminance

Eliminate initially overlit schemes with lighting that automatically maintains the correct light level throughout its lifecycle; even compensating for the accumulation of dirt and lumen depreciation.



Photocell Control

Keep the building safe with external lighting movement detection that automatically activates at dusk and deactivates at dawn.

LIGHTING MANAGEMENT



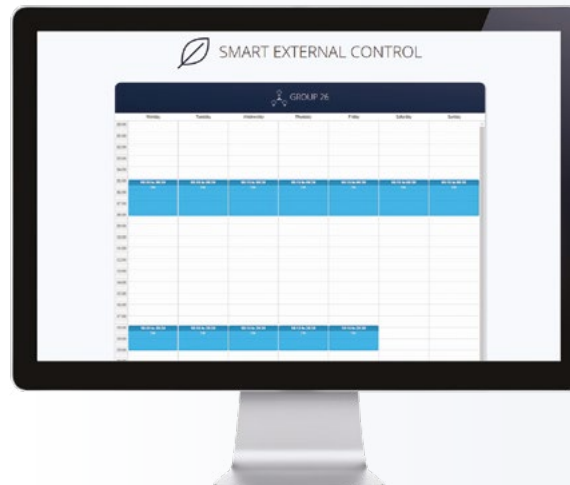
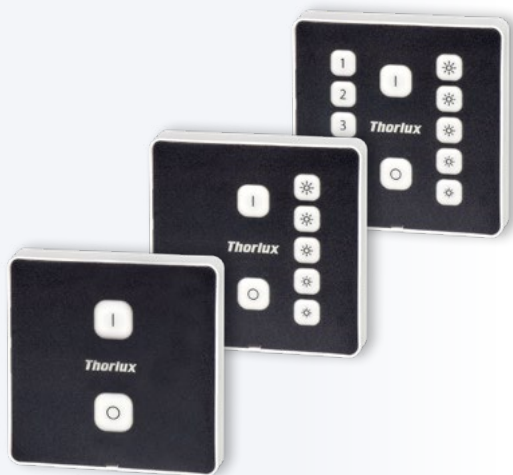
Presence Detection

Save energy with luminaires, equipped with intelligent light sensors, that turn on when movement is detected, then dim down or turn off after a predefined period of no movement.



Manual Control and Scene Control

Take control of the lighting by switching or dimming to a desired light level; or better still, transform the feel of the space in the press of a button using tailored pre-sets with scene control.



Lighting Time Control

Enjoy flexible external lighting options with the ability to select automatic movement detection or set the lighting to turn on or off between set times.

SMARTSCAN EMERGENCY



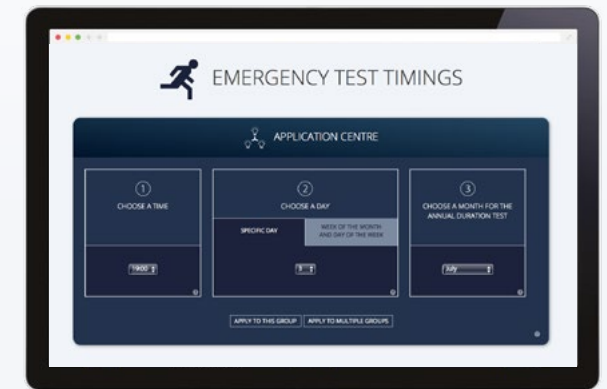
Self Testing

Eliminate the risks associated with manual testing of emergency lighting with luminaires that self test to a specified schedule. Instantly recognise a faulty luminaire from the integral LED indicator or the status on the SmartScan website.



Test Schedule

SmartScan Platform 2 offers the major benefit that tests are scheduled using the SmartScan Website, thus avoiding any issue of randomised testing occurring at inopportune times.



Legislation Compliance

Be safe in the knowledge that a building is legally compliant with test status reports stored electronically on the SmartScan web server and e-mail status notifications transmitted to authorised users on a monthly basis.



FEATURES

SMARTSCAN WEBSITE

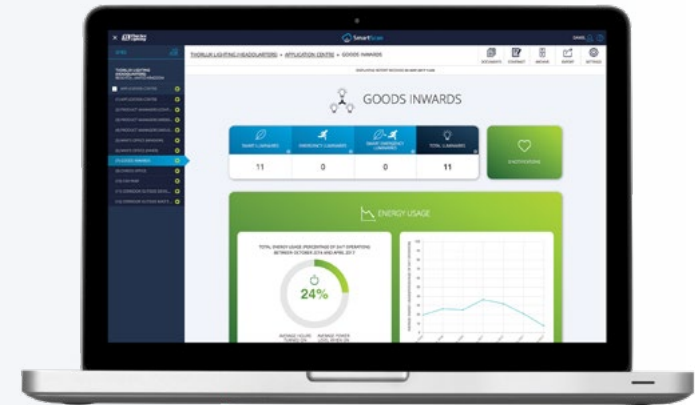


Luminaire Status Monitoring

One convenient, central location to view the health status of the whole lighting installation, groups of luminaires or even an individual component within a luminaire.

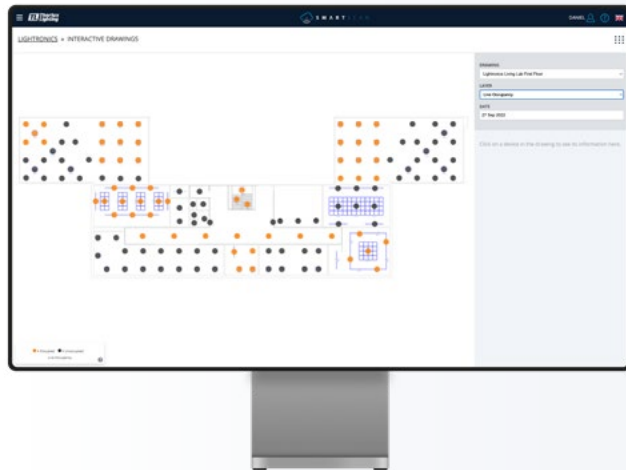
Energy Usage Monitoring

An interactive dashboard makes keeping track of your energy usage easy. Data is available for the entire installation, each room and each luminaire.



Occupancy Profiling

Buildings are an expensive resource so monitoring exactly when and where spaces are being occupied ensures they are used efficiently.



Live Occupancy

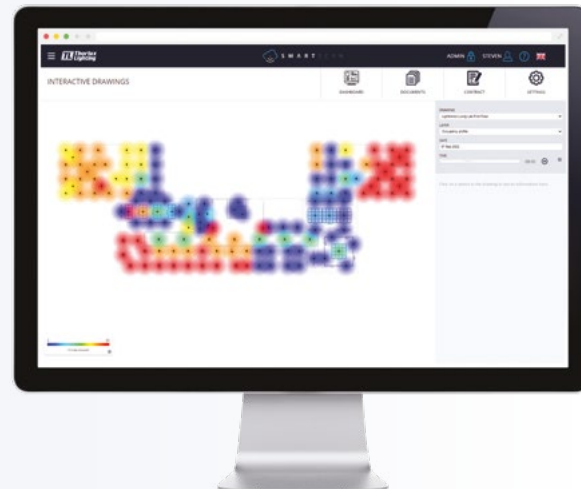
Easily check if that meeting room is available with a live interface displaying the occupancy of the building.

Device Management

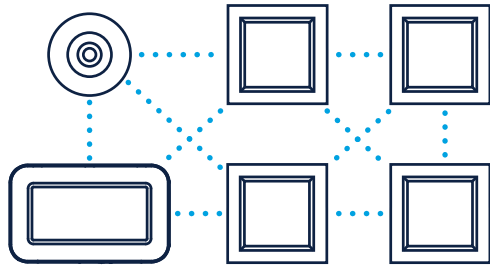
Eliminating the need for programming locally, this powerful tool allows building managers to change luminaire parameters on the SmartScan website, massively simplifying customisation of the system..

Interactive Drawings

A highly intuitive and visual user interface allows the user to select from various datasets overlaid on a drawing of the building.



SMARTSCAN WEBSITE



SmartScan Luminaires

An operational frequency of 868MHz (922MHz in Australasia) provides excellent transmission distances and better penetration of signals.



SmartScan Gateway

The IoT Gateway connects to Amazon Web Services using X.509 certificates over a secure TLS (Transport Layer Security) connection via mobile GSM networks or an optional LAN connection.



Your Device

The SmartScan Website uses the very latest encryption protocol (TLS 1.3) for secure and reliable transfer of data between computer devices. The website has passed a full penetration test and an attestation letter is available upon request. Full penetration tests are repeated annually.



SmartScan Web Services

All data is hosted on servers located within the UK with Bytemark, an Iomart company, certified to ISO27001, ISO9001, ISO22301, ISO20000, ISO14001 and ISO 50001.

SMARTSCAN COMPONENTS



Scan here to access product downloads.



TECHNICAL GUIDE



Scan here to view the technical guide.



THORLUX MOBILE EXPERIENCE



Scan here to find out more and book your demo.



GET IN TOUCH



Scan here to contact your local Thorlux representative.





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