



Smart Lighting Solutions

Industrial Lighting System

Illuminating the world, creating a smart, healthy life.

 www.morstar.com

Smart Lighting for Businesses

Smart lighting systems are an essential part of the modern smart enterprise. Not only does it improve energy efficiency, but it also increases workplace comfort and security. Morlink intelligent lighting system components and technologies developed by Morstar based on wireless Bluetooth mesh network technology will create greater added value for your business.

How Can Businesses Benefit from Smart Lighting?

Energy efficiency: Smart lighting systems are designed to be energy-efficient, reducing overall energy consumption and associated costs. They can automatically adjust lighting levels based on occupancy, daylight availability, and time of day.

Cost savings: By reducing energy consumption, smart lighting systems can save businesses money on their energy costs. They can also reduce maintenance costs by extending the lifespan of lighting fixtures.

Improved productivity: Balanced lighting can enhance productivity by providing a comfortable and well-lit working environment. Smart lighting systems can help optimize lighting levels and color temperature to create an ideal environment for employees.

Increased safety and security: Smart lighting can help improve safety and security by providing better visibility and deterring potential intruders. Motion sensors can also detect movement in unoccupied areas and automatically turn on lights, helping to prevent accidents.

Enhanced end-user experience: Smart lighting can create a more inviting and engaging atmosphere for end users. Adjustments to lighting levels and color temperature, creates the desired ambience and enhances the overall user experience.

Sustainability: Smart lighting can help businesses reduce their carbon footprint reducing energy consumption and greenhouse gas emissions.



Components of Morstar Smart Lighting Solutions

Light Fixtures

Smart lighting fixtures are equipped with sensors and wireless communication technologies, such as Wi-Fi, Zigbee, and Bluetooth, which allows them to communicate with other components of the system.

Software

Smart lighting systems rely on software to control the various components of the system. This software can be accessed through a web interface or a mobile app, allowing the enterprise to monitor and control the lighting system remotely.

Sensors

Sensors are utilized to detect motion, occupancy, and natural light levels. These sensors can be installed in the ceiling or wall communicate wirelessly with the lighting fixtures.

Controllers

Controllers are employed to program the smart lighting system and adjust the settings according to the enterprise's needs. Controllers can be physical devices or software-based.

Communication Technologies

Smart lighting systems use various wireless communication technologies to connect the different components of the system. Bluetooth, Zigbee, and Wi-Fi are some of the most prevalent technologies.

Technologies Used in Morstar Smart Lighting

ML

ML algorithms are used to analyze the lighting patterns used in the workplace and adjust lighting accordingly.

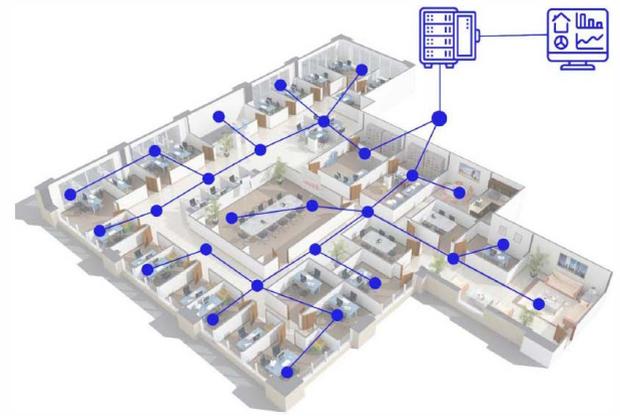
AI

Artificial intelligence algorithms are used for data analysis, learning and setting adjustment of the intelligent lighting.

IOT

Realize the internet of everything and enhance user experience.

Our Smart Lighting Solutions



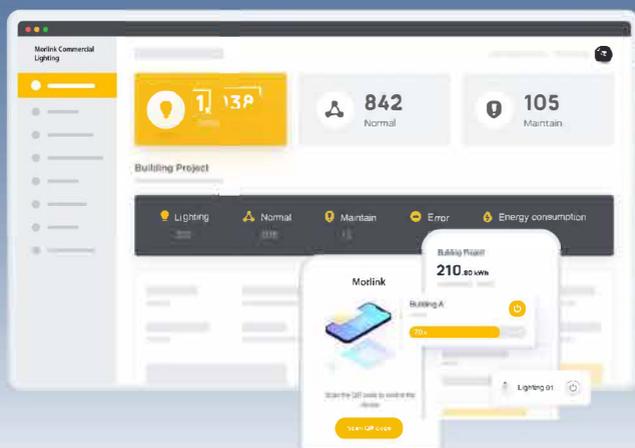
MORLINK

Complete Businesses Smart Lighting Solution

01 Multi-application platform design, integrating Bluetooth, Zigbee and common WiFi wireless technology can administer equipment group control, equipment monitoring and fault diagnosis, scene management, automation, etc.

02 Users can share lighting devices by category or location on the Morlink SaaS platform via the equipment sharing QR code through the Morlink applet for remote control.

03 Access visual management of devices, large-scale data analysis, user authorization and allocation, site mapping and configuration, and unified management of multiple projects.



SILVAIR

Reliable and energy-efficient lighting control solution

Silvaair Intelligent Lighting Control System is a wireless lighting control system that uses Bluetooth mesh technology to enable advanced lighting control capabilities. Compared to other competitors in the market.

Compatibility

Compatible with more devices including DALI and 0-10V interfaces. Can be easily integrated into existing lighting infrastructure without major upgrades.

Capabilities

More advanced lighting control functions can be integrated with other building automation systems to provide a comprehensive solution for intelligent lighting control.

Interface

Intuitive user interface, provides simple control and management of lighting systems and allows configuration and customization options to meet specific user needs.

Scalability

Highly scalable and can be easily expanded as lighting needs grow. This makes it an ideal solution for both small and large-scale projects.

WHY CHOOSE US

Over 2 Decades of Engineering Excellence

Our proven and reliable smart lighting solutions are designed for lighting scenarios in corporate buildings, campuses, parking lots, offices, warehouses, industrial sites, etc.

The Morstar team is at your disposal to help and advise you to choose the best solution for your specific goals and needs. In this way, we ensure that our solution seamlessly meets your wishes. Morstar is a market leader in smart lighting and an advocate of light-healthy lighting.



Savings & Services

At Morstar, we see it as our mission to create a comfortable, healthy and secure lighting environment that enhances people's performance and well-being. We support our customers' sustainability goals by providing health and energy-saving solutions a focus throughout Morstar's histo-

 QUICK, EASY INSTALLATION reduced labor and production down time	 ENERGY REBATE ELIGIBILITY energy costs decreased	 WIRELESS CONTROLS IntelliLED advanced controls option to even further reduce costs	 REDUCED MAINTENANCE significant reduction or elimination in materials, labor and production down time	 IMPROVED SAFETY risk of accidents is cut up to 60% with clear visibility of hazards*	 COMPLIMENTARY SERVICES de-risking your investment and finding the right solution without over-purchasing
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*Effect of Comfortable Light Environment on Worker Productivity.

Complimentary Value Added Services


Total Cost Analysis
See how much you could be saving in energy and maintenance costs before you buy with our ROI tool.


Lighting Layout
Our experienced and accredited lighting designers will quickly design a solution to meet your needs with optimal light levels and the fewest fixtures possible.

International Certification



Parking Lighting Strategies for Optimal Performance

Not just on or off. Now, LED luminaires and smart lighting control systems using advanced technology can enable sensing, scheduling, and even special levels of lighting based on ambient lighting and space requirements, in addition to turning luminaires on, off, or dimming as needed. Combine one or more lighting strategies to maximize energy savings.

New and existing parking garages are the perfect platforms for incorporating the most current lighting technologies. Changing from fluorescent lighting to a more efficient LED parking lighting system improves the overall user experience. LED means more efficiency (typically 80% energy cost reduction), longer life, lower maintenance, low lumen depreciation rate and reduced light pollution due to the position of the source.



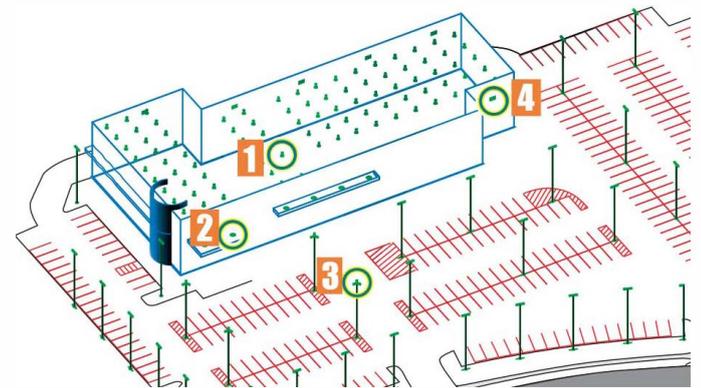
Parking Garage Applications



- Available in 40W, 80W in 120-277V and 347V configurations
- CCT: 3000K/4000K/5000K 3-CCT Switchable and 3000K-5000K App adj optional
- 0-10V standard and 0-100% App stepless dimming
- Rated for wet locations
- Wireless control optional
- Surface mount kit included



- Available in 40W, 60W and 80W in 120-277V and 347V configurations
- 150° Beam Angle
- Light transmission rate of lens is over 90%
- 3-Power & 3-CCT Switchable
- Plug & Play Motion
- Can install EM driver
- Wireless control optional
- Surface mount kit included



- Available in 28W, 40W, 60W, 70W in 120-277V, 120-347V and 347-480V configurations
- 150° Beam Angle
- UV resistant lens and coating
- CCT: 3000K/4000K/5000K and 3-Power & 3-CCT Switchable
- Motion sensor & Photocell available
- Suitable for wet location weather proof Ip65
- Surface mount kit included

Exterior Applications



- Available in 50W, 100W, 150W, 200W, 240W and 300W in 120-277V configurations
- CCT: 3000K/4000K/5000K and 3-Power & 3-CCT Switchable
- 10-100% dimming standard
- Type III, Type IV, Type V and flood lens optional
- Wireless control optional
- Surface mount kit included

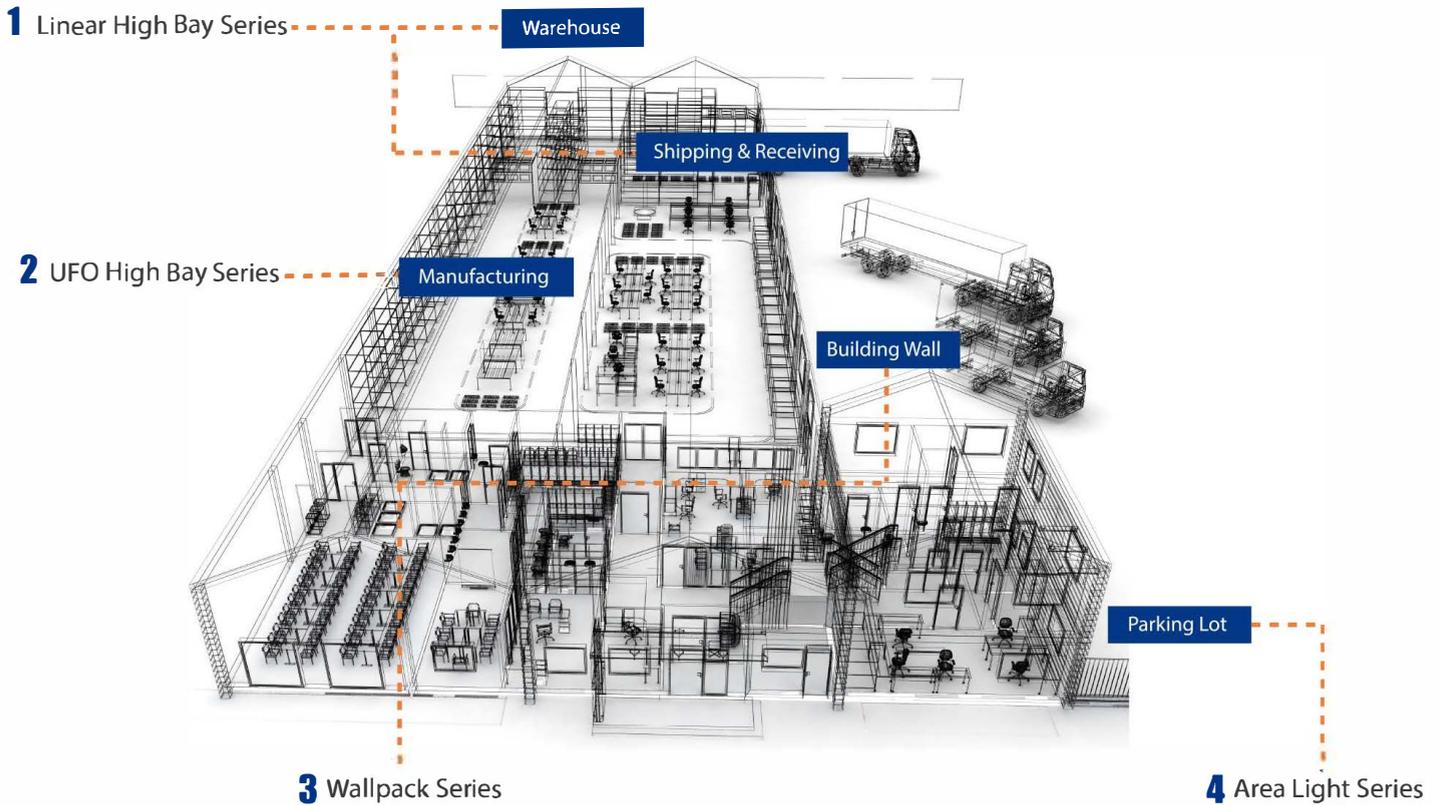


- Available in 40W, 80W, 120W in 120-277V and 347V configurations
- 3-Power & 3-CCT Switchable
- 1-10V standard dimming
- Outdoor special optical tempered glass lens
- Wireless control optional
- Surface mount kit included

Please get in touch with us if you need any help with your lighting project.

How to Choose the Right Industrial Lighting?

Providing the right lighting conditions for your site is critical. Proper lighting contributes to a safe work environment that prevents accidents and improves the overall health and efficiency of the organization. Comfortable lighting will complement your working conditions and have a positive impact on employee performance and productivity.



1  

Linear HB Light

- Available in 80W, 110W, 165W, 225W, 260W and 300W in 120-277V and 347V configurations
- 3-Power & 3-CCT Switchable
- Plug & Play Motion Sensor
- Viewing angle is easily adjustable: 20-90 degrees
- Thermoelectric separation technology, better heat dissipation, and longer life.
- Wireless control optional
- Hook, surface and pole mount kit included

2  

UFO HB Light

- Available in 100W, 150W, 200W, 240W and 300W in 120-277V and 3120-347V configurations
- 60° /85° /110° Beam Angle
- 3-Power & 3-CCT Switchable
- Plug & Play Motion Sensor
- Simple and stylish appearance, excellent heat dissipation
- Can install EM driver
- Wireless control optional
- Hook, surface and pole mount kit included

3  

Wallpack Light

- Available in 40W, 80W, 120W in 120-277V and 347V configurations
- 3-Power & 3-CCT Switchable
- 1-10V standard dimming
- Outdoor special optical tempered glass lens
- Wireless control optional
- Surface mount kit included

4  

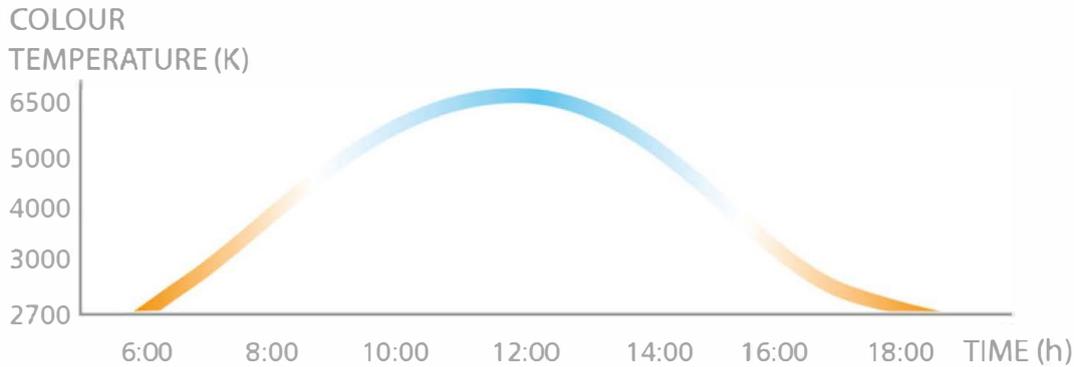
Area Light

- Available in 50W, 100W, 150W, 200W, 240W and 300W in 120-277V and 347V configurations
- CCT: 3000K/4000K/5000K and 3-Power & 3-CCT Switchable
- 10-100% dimming standard
- Type III ,Type IV ,Type V and flood lens optional
- Wireless control optional
- Surface mount kit included

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Human Centric Office Lighting

All living beings have an “inner clock” called the circadian rhythm, and humans are no exception. In short, this means that we rise with the sun and go to sleep when it sets. The right light at the right time can influence everything from our sleep to how we feel and perform. That is why Human Centric Lighting (HCL) is beneficial for schools, healthcare facilities, offices and industrial buildings.



Circadian Lighting

Mimic the natural light changes throughout the day, which can help regulate the circadian rhythm of office workers.



Occupancy Sensors

Detect the presence of people in a room and adjust the lighting levels accordingly.



Task Lighting

Provides localized lighting for specific tasks that can reduce eye strain and improve productivity.



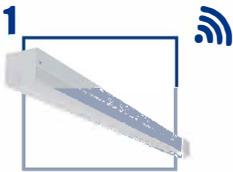
Personalized Lighting

Tailored to individual preferences, such as color temperature, brightness, and intensity etc.



Daylight Harvesting

Use sensors to monitor the natural light levels in a room and adjust the artificial lighting levels accordingly.



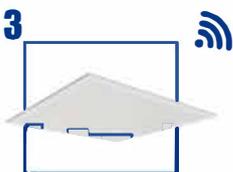
1 Linear Strip Light

- Available in 40W, 80W in 120-277V and 347V configurations
- CCT: 3000K/4000K/5000K 3-Power & 3-CCT Switchable 3000K-5000K App adj optional
- 0-10V standard and 0-100% App stepless dimming optional
- Built in sensor optional
- Wireless control optional
- Surface/hanging mount kit included



2 Troffer Light

- Available in 25W, 30W, 35W 40W and 50W in 120-277V and 347V configurations
- CCT: 3000K/4000K/5000K 3-Power & 3-CCT Switchable 3000K-5000K App adj optional
- 0-10V standard and 0-100% App stepless dimming
- PIR BLE Motion sensor optional
- Smooth and comfortable light
- Recessed/surface/hanging mount kit included



3 Panel Light

- Available in 30W, 40W and 50W in 120-277V and 347V configurations
- CCT: 3000K/4000K/5000K 3000K-5000K App adj optional
- 0-10V standard and 0-100% App stepless dimming
- PIR BLE Motion sensor optional
- Smooth and comfortable light
- Slim profile ensures much lower shipping and storage cost
- Recessed/surface/hanging mount kit included



4 LED Downlight

- Available in 25W, 36W
- 100-277V/120-347V AC input
- Built-in Bluetooth wireless module
- CCT: 2700K-6500K App adjustment
- 0-10V standard and 0-100% App Dimming
- ETL-listed: reliable quality and safe operation.

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