Intelligent Wireless Outdoor Lighting Control Solutions

Save Time, Save Energy, Save Money

Street and Highway Lighting • Campus Lighting • Parking Lot and Garage Lighting • Industrial Lighting

www.cimconlighting.com
Taking Control of Outdoor Lighting

*CIMCON Lighting's LightingGale™ family of intelligent wireless outdoor lighting controllers provide the tools necessary to take control of your energy and maintenance costs.*

As energy costs continue to increase, taking control of outdoor lighting costs while keeping lights turned ON is imperative to cities, towns, colleges, parking garages, utilities and industrial operations. In addition, if left ON for long periods of time, outdoor lights can adversely affect the environment. Outdoor light maintenance is also a major source of expense, and if not properly maintained, can result in significant cost, inconvenience, liability and safety risks. LightingGale is CIMCON’s solution for these problems. LightingGale is an intelligent, centralized Wireless Outdoor Lighting Management Solution that is powerful, yet economical enough to provide a quick Return on Investment (ROI) utilizing its advanced features for control, safety and maximized cost savings. LightingGale provides:

- Tools to achieve reduced energy and maintenance costs
- Intelligent switching for sunset / sunrise based ON/OFF and dimming scheduling
- Increased lamp life operation with fault interlocks
- Revenue grade energy metering
- Extensive reporting on performance and energy savings
- Powerful asset management with complete and accurate inventory control
- Powerful industry standard web-based software with GPS mapping
- Ease of installation and operation

LightingGale provides all the tools and capabilities needed for organizations to maximize the energy and operational cost savings from their outdoor lighting systems.

LightingGale Provides Wireless Capabilities That Save Money

LightingGale™ is CIMCON Lighting’s intelligent wireless outdoor lighting control system that can be easily retrofitted for traditional outdoor lights, be installed on new LEDs or Solar-based LEDs, or be easily transferred from traditional lights to LEDs.

A true “plug & play” system, LightingGale’s Wireless Controllers can be easily installed on any outdoor light fixture in a matter of minutes and begin communicating with the Wireless Gateway via RF-Wireless and GPRS/GSM technology. The LightingGale family of wireless lighting controllers provide the advanced capabilities for a wide variety of outdoor lighting applications, including but not limited to: Street and Highway Lights, Area Lighting, Parking and Campus Lighting, and Industrial Lighting.
Who We Serve

CIMCON’s intelligent lighting management solutions provide value for Outdoor Lighting Fixture Manufacturers; Outdoor Lighting Sensor, Driver and Power Supply Manufacturers; Site Management, Electrical/Lighting Contractors, ESCOs, and Other Site Installation and Support Companies; Resellers and System Integrators; and Municipalities, Campuses and Other Government and Service Based Organizations.

Outdoor Lighting Fixture Manufacturers

For Traditional, LED, and Solar-based LED outdoor lighting manufacturers, CIMCON can provide wireless control capabilities to your outdoor fixtures - quickly and easily, with minimal or no engineering changes and cost. CIMCON also offers a variety of wireless controllers specifically for LED manufacturers that extend the capabilities of LEDs for implementing advanced adaptive lighting and motion-based lighting concepts, while offering all the other capabilities of our solution. This provides significant operational and maintenance cost reductions for a manufacturer’s customers. Manufacturers can be assured of a reliable partner in CIMCON though effective and professional support, and product quality. CIMCON has a large team of highly experienced engineers who can help with your integration effort.

Site Management, Electrical/Lighting Contractors, ESCOs and other Site Installation and Support Companies

CIMCON has extensive experience supplying wireless controls to lighting projects, allowing you to add more value and services for your customers. CIMCON’s LightingGale solution offers you the industry’s most powerful wireless, web-based platform for swift deployment of lighting controls into your projects. We become an extension of your project team, providing you with products, as well as professional services in the design of the networked lighting infrastructure that will maximize energy savings and reduce maintenance costs for your customers.

Municipalities, Campuses and Other Government and Service Based Organizations

LightingGale is available to cities, towns, utilities, campuses and parking facilities that are implementing new lighting systems or are retrofitting all or part of an existing lighting system with LEDs. CIMCON provides customers with its knowledge, expertise and insight into how best to configure a new lighting project or upgrade an existing infrastructure that will maximize energy savings and reduce maintenance costs.

Outdoor Lighting Sensor, Device and Power Supply Manufacturers

CIMCON can work with you jointly in customer engagements to allow you to offer a total solution instead of just providing parts of a system. We can also help advance the reach of your lighting products by helping you easily make your existing wired products (such as sensors, wall dimmers, ballasts, LED drivers and more) go wireless.

Resellers and System Integrators

We can help your customers gain tremendous savings and centralized lighting management, through our innovative wireless control solutions.
Applications for Wireless Outdoor Lighting Systems

**Street and Highway Lighting**
For cities, towns, and utilities, LightingGale reduces street light energy usage and maintenance costs, as well as light pollution, while preserving public safety through the use of the latest RF-Wireless and GPRS/GSM technology, which enables remote programming, monitoring, and control of street lights. Easily installed or retrofitted on Traditional, LED, or Solar-based LED street lights, LightingGale can be used to monitor and control from a few street lights on a given street to hundreds of thousands of street lights within a city from the comfort of your office. LightingGale's scheduling and grouping capabilities, along with its Street Light Health Monitoring and Fault Notification capabilities drive the cost of maintaining large numbers of street lights down by at least 50%, and can provide a reduction in energy usage by 30%.

**Parking Lot and Parking Garage Lighting**
Adequate lighting in parking lots and parking garages at retail malls, car dealerships and office parks is important for maintaining visitor and employee safety; however, during late night hours when there is little or no traffic, keeping lights ON at full power is both a significant expense and contributor of environmental light pollution. LightingGale allows retail and business facilities to easily control when and for how long lights are ON. LightingGale's support for motion-based control and daylight harvesting allows for advanced dimming control to reduce costs without sacrificing safety by allowing for additional lights to be dimmed ON based on pedestrian or traffic movement.

**Area Lighting**
Lighting on college and business campuses, and in parks is critical to public safety; however, it represents a significant expense for organizations to operate and maintain. LightingGale allows colleges and businesses to fully control their campus-wide lighting from a web-based Control Interface that allows them to turn lights ON/OFF or be dimmed either at predetermined schedules or based on pedestrian activity in the area. This is accomplished via LightingGale’s support for motion-based control that ensures the appropriate level of lighting, when and where it is needed. Safety considerations are also maintained by LightingGale’s automated fault detection and alert system that notifies facilities management via email and text messages when a fault occurs for quick and timely repair.

**Industrial Lighting**
In large industrial operations, LightingGale can be used to turn lights ON/OFF or be dimmed when employees are not present in an area for an extended period of time; however, as soon as activity begins or is scheduled to begin, LightingGale can be used to automatically activate lights, thus ensuring employee safety, while conserving energy when lighting is not needed. The automated fault detection and alert system of LightingGale also provides additional employee safety assurances by notifying industrial operators via email and text messages when a fault occurs and that a facility repair is needed.
Key Features of LightingGale

- **Wireless Technology**
  LightingGale utilizes the latest developments in wireless technology and employs RF/GSM technology to program, monitor and control outdoor lights.

- **Google Maps and Google Earth User Interface**
  Fully integrated with Google Maps, LightingGale provides an intuitive and familiar interface for users that requires little or no training.

- **Remote Control and Scheduling**
  Individual lights or groups of lights can be controlled based on sunset/sunrise times, remotely programmable schedules, photocell feedback, or on demand.

- **Dimming**
  Lights or groups of lights can be dimmed based on a programmable schedule. Dimming is only limited by the fixture’s electronics.

- **Health Monitoring, Asset Management and Fault Notifications**
  The system allows for comprehensive asset management, which coupled with health monitoring and fault notifications allows for “one trip” repair.

- **Fault Tolerant Intelligent Light Controllers**
  The lighting controller operates independent of the gateway, network and the lighting management software, providing the highest level of reliability in operations.

- **Highly Scalable and Reliable Management Software**
  Multi-threaded web-based architecture with clustering allows support for hundreds of thousands of outdoor lights.

- **Revenue Grade Energy Metering**
  The wireless controllers contain a dedicated energy measurement engine for revenue grade metering.

- **Light Agnostic**
  LightingGale works with any lamp type or manufacturer. Multiple light fixture installation options include: Standard NEMA, NEMA threaded replacement, and integrated board options for LED fixtures.

- **Easy Field Configuration using Handheld Configurator**
  A dedicated, simple handheld configurator allows for quick verification of the installation, energy metering, GPS location stamping, lamp condition monitoring and commissioning of the wireless mesh network.

LightingGale System Architecture

CIMCON’s control system is made up of Light Controllers (SLC units), Gateways (DCU supports 500 to 1000 SLCs), and LightingGale Web-based Management and Control Software. CIMCON’s control systems are available for Traditional, LED and Solar-based LED light fixtures, and can be utilized in a wide variety of outdoor applications, including but not limited to: Street Lights, Highway Lighting, Area Lighting, Parking Lot and Garage Lighting, and Industrial Lighting.
Key Benefits of LightingGale

- **Maintains Public Safety**
  The system assures that lights are ON when they are needed and scheduled.

- **Failure-based Reporting**
  Notification is provided automatically in real-time to the responsible individual(s) as soon as a fault occurs.

- **Reduced Light Pollution and Increased Lamp Life**
  By dimming or turning lights OFF when and where they are not needed, light pollution is reduced and lamp life is increased.

- **Easy Expansion**
  Scalable to new or remote areas quickly and easily since no cables are involved.

- **No Photo Cell Required**
  The controller has a built in astro-clock that can accurately compute Sunset and Sunrise times, eliminating the need for a photocell. A photocell option exits as a backup.

- **Power Savings**
  Reduces energy costs by as much as 30% through intelligent scheduling and by minimizing wastage.

- **Maintenance and Repair Savings**
  Save 50-80% on repair costs with the “1 Trip Repair” capability of LightingGale.

- **Low Initial Costs**
  Very low investment cost because no cable installation is required.

- **No Training Required; Simply “Plug and Play”**
  If you can install a photocell, you can install CIMCON’s LightingGale Controller.

- **Robust and Reliable**
  The system has been designed and proven in field operations to offer unmatched reliability for sustained performance over a wide range of operating conditions.

**LightingGale Web-based Management Platform provides Outdoor Lighting Operators full system control to maximize Energy and Maintenance cost savings**

- Pole View of Street Lights; Full Status and Control from Google Maps
- Energy Savings Dashboards; Complete Energy Savings Data
About CIMCON Lighting

Founded in 1988, CIMCON is the world leader in developing scalable, intelligent wireless lighting management solutions for Traditional, LED and Solar-based outdoor lights that provide the lowest cost of ownership. As the pioneer of the innovative concept of “Just in Time Lighting™”, CIMCON’s lighting management solutions ensure that the right amount of lighting is provided where it is needed and when it is needed via intelligent switching; thereby eliminating energy wastage by as much as 30%. CIMCON’s solutions also help to reduce maintenance costs by at least 50% via automated fault detection which eliminates the need for late night patrols. CIMCON’s intelligent outdoor lighting management control systems utilize the latest RF-Wireless and GPRS/GSM technology, and can be used to manage and control from a few outdoor lights to entire systems.

For over 20 years, CIMCON has been delivering deep domain knowledge and innovation to its global client base; supporting its world class, state-of-the-art control systems with 24 x 7 help desk support and a wide local presence.

Customer Training & Technical Support

CIMCON provides training and technical support services during your planning and installation process. We can become an extension of your project team, providing you with products, as well as professional services in the design of the networked lighting infrastructure that will maximize energy savings and reduce maintenance costs. These services are provided through our worldwide staff of qualified engineers with extensive outdoor lighting, wireless and industrial automation experience.

Global After Sales Support

CIMCON understands and values the importance of after sales support requirements for a critical system such as outdoor lights that have a substantial impact on safety and performance. Our highly experienced support engineers are always available just a phone call away to answer any questions. CIMCON offers cost effective support plans, depending on your system size and support needs.