

LED Lighting Retrofits, Energy Management and Security Systems

Lighting Automation has a turnkey program that incorporates high quality LED lighting solutions for economically retrofitting existing fixtures or using new fixtures for up to 75% energy savings and years of maintenance savings, while using DLC listed lighting products for available Federal and Power Company Credits. This the first stage of a robust turnkey solution including the lighting retrofit, energy management, security enhancement including wifi cameras and an emergency services communications backup system.

The second stage of our program adds a complete wireless energy management system for lighting automation to include using GPS coordinates to turn lights on at sunset and off at sunrise and utilizing the photocell as a backup depending upon weather conditions. There is real time maintenance data to determine the light and photocell condition and each light will report “operating time” to determine the energy use of each light. The system is controlled using an encrypted interface that can be cloud based or on the customers servers.

Our system has an advanced security system option. You can add wifi fixed or PTZ (Pan, Tilt, Zoom) cameras using a state of the art encrypted monitoring system. This is one of the most powerful and cost effective programs in the market place. Our CCTV systems are designed to operate 24 hours a day, 7 days a week, in harsh environments as part of mission-critical video surveillance applications, including city traffic systems, oil and gas, railway and ITS. In order to provide a constant stream of video images, system reliability is absolutely essential to accommodate Intelligent Video Analysis functions and advanced image analysis algorithms. Rugged IP cameras offer quick detection over a wide variety of threats and allows user-defined motion sensing and detection of unauthorized camera tampering, virtual fence, object counting, alert zone, missing object, and unattended object. Surveillance staff can quickly retrieve and review details of any abnormal events from the inserted SD/SDHC Card.



Moving object tracking:

Moving object tracking & recognition

Virtual Fence:

A virtual “tripwire” in the camera frame will trigger an alarm whenever motion across the line is detected.

Alert Zone:

Any motion detected inside the detection zone will trigger an alarm.



Camera Tamper:

Triggered when the camera lens is blocked, redirected, defocused or painted.

Removed object:

The camera detects whenever an object is removed from the frame and will trigger an alarm after a certain user-defined time threshold.

Unattended objects:

Tracks moving objects in the camera frame and detects abnormal loitering.