

Energy Saving Luxmatic®

# Luxmatic Street Lighting Control System

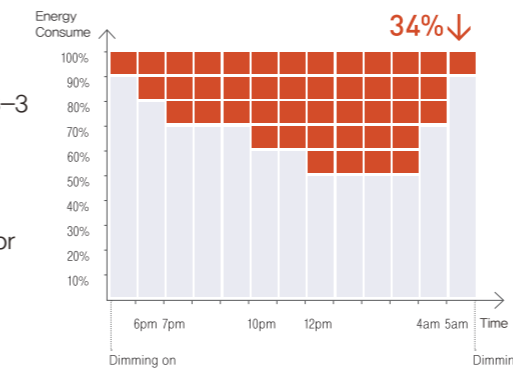
Streetlighting, as an essential part of urban infrastructure, is crucial for municipal authorities to provide safer streets and prevent crimes for both motorists and pedestrians. Maintenance efficiencies, energy cost savings, improved safety, and environmental protection enhancement are all high on their agendas.

Accordingly, streetlight control systems are expected to provide enhanced functions and features upgraded from the conventional systems. Smart lighting control systems will accommodate these expectations by bringing extended lamp life and adjustable intensity.

Luxmatic is an intelligent street light management and control for dimming control, lamp and ballast failure detection, and usage metering.

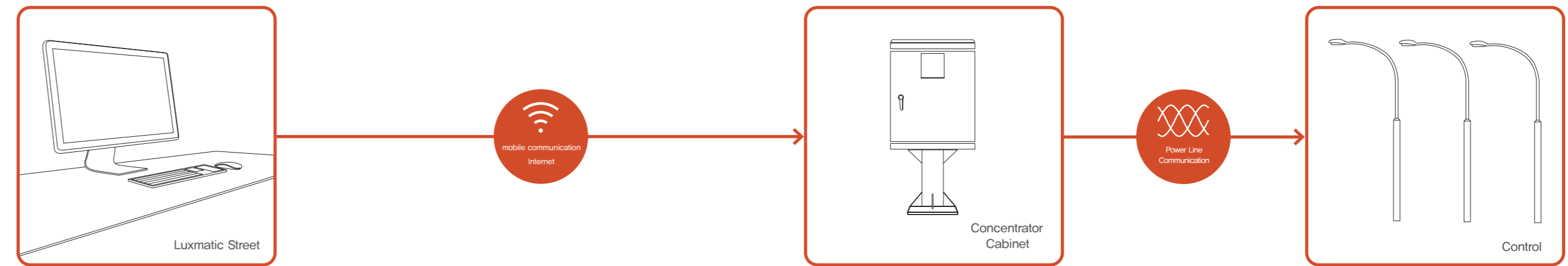
## Features

- Monitors each light individually for easier maintenance
- Supports Power Line Communication standard ISO/IEC 14908-3
- Eliminates the light hazard by regulating brightness
- Saves 30% or more energy compared to the current system
- Provides overall uniform lighting improving driver perception for uniform visibility



## Capabilities

- Allows individual/group/entirety control along with schedule/scene/sensor-successive drive control
- Predicts lamp life with measuring running hours
- Includes an alarm warning feature for current leak, over voltage, over current, and concentrator cabinet open
- Enables the schedules by sunrise/sunset time
- Provides energy usage analysis by data collection, monitoring and analysis
- Includes SMS call to the manager for quick response
- Provides control/alarm history and energy usage data in graphics format report



Luxmatic Street

Luxmatic Street software provides convenient control for street and security lighting on the road by uniquely-designed network system

- Web-based control and monitoring
- Weekly/monthly history report
- Energy usage analysis
- Alarm and SMS



SmartServer

Luxmatic SmartServer connects remote lighting controller to the internet, located in concentrator cabinet

- Signal Repeating of Power Line Communication
- Scheduled Control
- Connects with CDMA/GSM
- modem Digital Input/Output



Luxmatic IOLink

Luxmatic IOLink is an analog/digital input/output device based on Power Line Communication

- Supports Power Line Communication
- Digital Input: 4 Ports
- Digital Output: 4 Ports
- Analog Input: 4 Ports (0~10V/4~20mA)



CL200/100

Luxmatic CL200 makes adjustments for high-voltage discharge lamp, ballast for high-output LED or control convertor to adjust brightness

- Supports power-line communication
- Control signal: 0~10V, PWM
- Energy measurements: A, V, W, PF, Wh
- Alarm: over current/voltage, leakage current



## Performance

Street lighting is seriously related to public safety and thus its performance and reliability are very important. Luxmatic street lighting control system monitors the operating condition in real-time, predicts the life expectancy of the lamps and enables timely maintenance minimizing civil complaints.



## Energy Saving

Luxmatic lighting control system adjusts the brightness in real-time depending on the traffic volume and the ambient light and saves on energy expenses, which helps reduce CO2 discharge effectively. Furthermore, by monitoring street lights individually, it prevents accidents and reduces maintenance cost.



## Comfort

Excessive lighting is a public hazard as it can harm the eco-system and cause civil complaints. Maintaining optimum lighting suitable for the environment can prevent these public hazards.



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