SMARTLC

SOFTWARE

SMARTLC **Software for Lighting Controls**

Background of Development

MR BAS software has evolved in parallel with advancements in information technology. Designed as a user-friendly and intuitive lighting control application for the Windows operating system, it has continuously progressed through multiple generations of upgrades.
Initially developed to support the ON/OFF-based control methodology of the GE Lighting Control System, the software was introduced under the name SmarTLC. It was also exported to GE in the United States under the product name Light-X.
SmarTLC is a dedicated lighting control software solution that provides full compatibility with GE TLC products, enabling reliable monitoring and control.
Featuring powerful graphical capabilities, the software delivers a more intuitive and efficient user interface than conventional lighting control applications. Its drag-and-drop editing functionality allows users to easily configure, modify, and manage the system with minimal effort.

Overview

SmarTLC is a software platform developed to efficiently monitor, control, and manage lighting systems throughout a building from a centralized interface. It operates as a dedicated lighting control system while providing a wide range of advanced control and management functions.
SmarTLC can be installed on both server and client computers, enabling mutual backup functionality to enhance system reliability. Any program updates or database modifications made on the server are automatically reflected and can be monitored from the client, ensuring consistent system operation and real-time information sharing.

Application

SmarTLC is suitable for a wide range of applications, from small and medium-sized buildings to large-scale commercial and public facilities. It can be deployed wherever intelligent lighting control is required, including shopping malls, office buildings, airports, convention centers, stadiums, gymnasiums, apartment common areas, and other public spaces.
As a dedicated lighting control software platform, SmarTLC provides comprehensive lighting management functions, including schedule-based control, sunrise/sunset control, program switch transmission, and various other automation features. These capabilities enable efficient operation, improved energy savings, and enhanced user convenience.

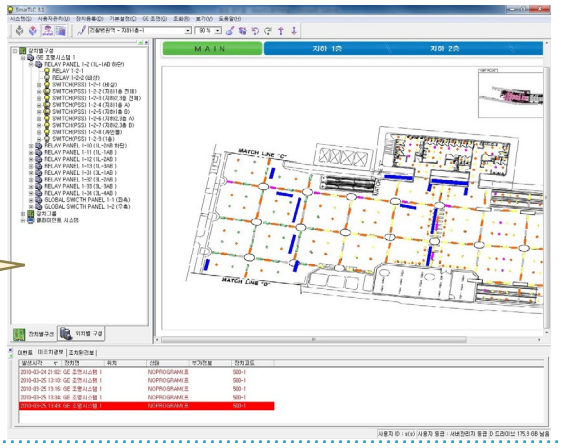
Key Features

•Supports standard PC hardware operating in Server and Client modes, with mutual backup and standby capabilities for enhanced system reliability.
•Restricts monitoring and control permissions based on user access levels.
•Provides real-time trend graph monitoring of total lighting load and power consumption.
•Ensures continuous field controller operation even while programs are being edited or downloaded.
•Offers a customizable user interface with icon-based menus and flexible screen layout configuration.
•Supports various graphic file formats for intuitive system visualization and operation.
•Provides a tree-structured navigation view for devices organized by equipment, location, or user-defined groups.
•Maintains high-quality graphics without image distortion, even when zooming in or out.
•Automatically navigates to the affected device or relay when an alarm occurs, enabling rapid fault identification.
•Monitors and analyzes current-sensing data for each individual relay.
•Supports automatic Sunrise/Sunset scheduling control for energy-efficient lighting operation.

Screen of SmarTLC

Real time programming and monitoring.

Graphic edit, On Line monitor, Diagnostic Pop up



Schedule, Pattern and Group Down Loading

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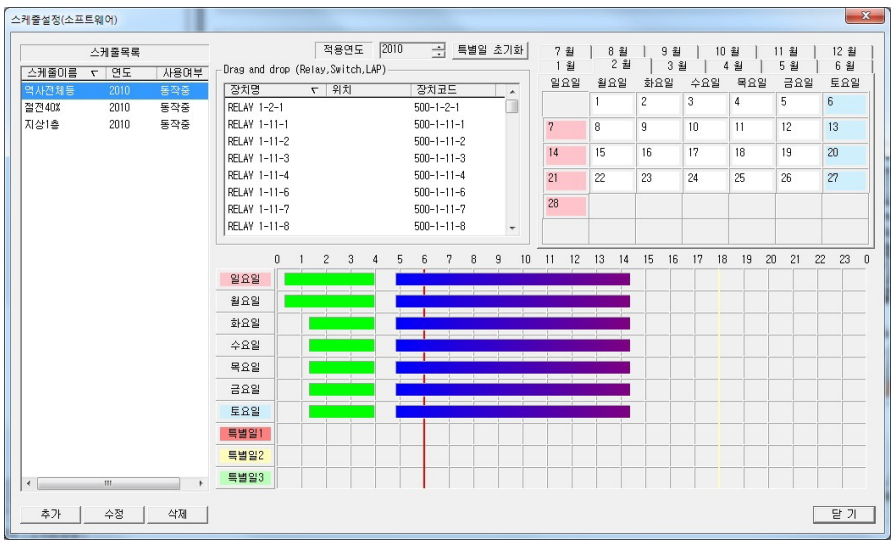
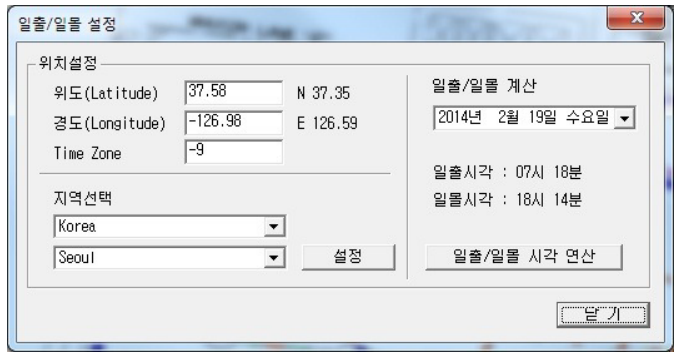
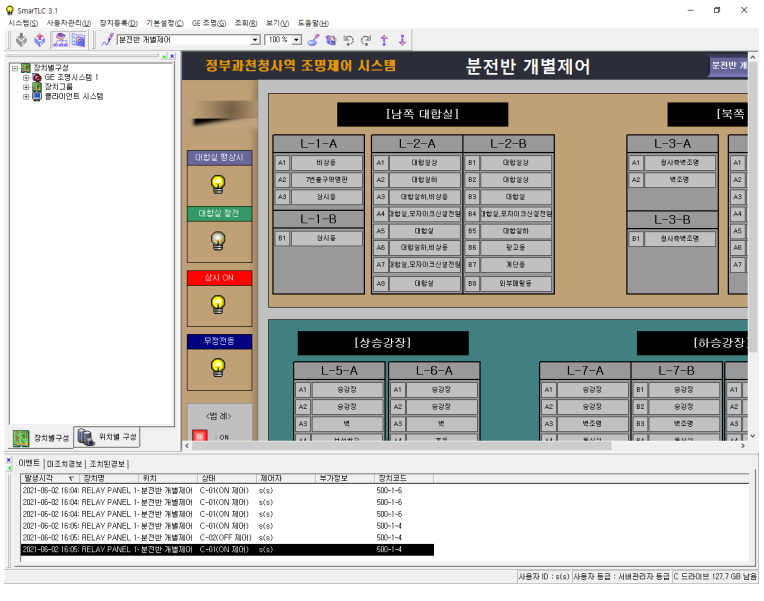
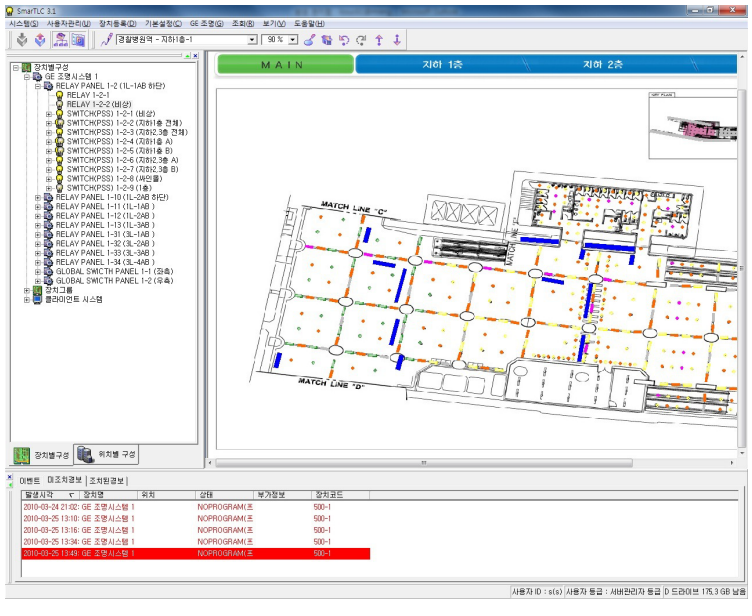
Configure : Communication, User Level, Location and Device configuration

Program : Schedule, Pattern and Group, Down and Up Loading



Operation

SmarTLC is installed and operated on a standard Windows-based PC using the SmarTLC Installation Program.
After installation, the user logs into the software and configures the communication settings between the central control device and the PC. The computer can be configured to operate in either Server Mode or Client Mode, depending on the system architecture.
The database for each project site is then created, and the required control logic and operating scenarios are configured. Once the configuration is complete, the control programs are downloaded to the field controllers while the system remains online. After downloading, the software verifies the feedback status of each controller to ensure successful program transfer and system integrity. If necessary, the programs can be re-downloaded to guarantee accurate configuration.
The graphic editor provides an intuitive drag-and-drop interface. Users can simply drag control points or circuits from the database and drop them directly onto the graphical layout, allowing fast and efficient screen configuration.
All program modifications, operational events, and system activities are automatically recorded in the Data Logging system. These historical records enable operators to review program changes, analyze operational history, monitor equipment performance, and compare system data with actual load conditions for effective operation and maintenance.



Monitor : Graphic edit and On line monitor , Run time, Data Logging and Diagnostic pop up