

Lighting Automation in Healthcare



An examination in improved well-being and enhanced energy savings

From prevention and treatment to monitoring and recovery, the healthcare industry never stops advancing. Yet, advancements in medicine are not the only way healthcare facilities, including hospitals and senior living care centers, are getting smarter.

Because many of these facilities are in use 24 hours a day, keeping the lights on constitutes a significant energy drain. In fact, some estimates suggest lighting accounts for up to 60% of hospitals' energy budgets. As the evolution of smart technology continues, lighting controls and systems are becoming an integral part of comprehensive building automation systems (BAS), as well as a critical driver of improved patient care and better well-being for healthcare providers.

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Leverage Human-Centric Lighting

Research has shown that artificial light has tremendous biological and physical effects on humans. By manipulating flexible LEDs and innovative control systems, healthcare facilities can incorporate a healthy circadian stimulus that produces better outcomes for patient populations and providers.

Experience Significant Cost Efficiencies

Through a platform built on BACnet standard architecture that leverages a single WebCTRL® interface, users can monitor and manage networked lighting controls as part of an ongoing energy management strategy that delivers up to 50% energy savings over non-controlled LED lighting.

Deliver Flexibility to End-Users

Intuitive, fully customizable digital touchscreen panels can be wall-mounted in individual spaces, allowing occupants with minimal training and operational knowledge to access preset scenes in real time that augment the environment for certain stakeholders, activities and times of day.

The Value of Best-in-Class Products and Systems

From operating rooms to waiting rooms, healthcare facilities house a variety of spaces that address a multitude of needs. Therefore, flexibility in lighting is essential to better manage facilities, keep residents safe, optimize occupant comfort and ensure building security.

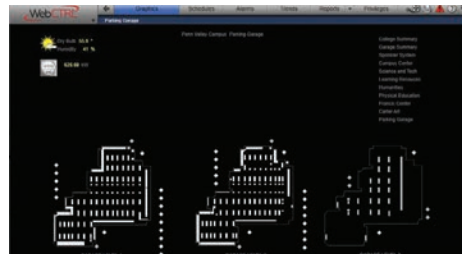


PROCEDURAL AND TREATMENT CENTERS

Using safer visible light than UV, advanced LED lighting and controls help healthcare facilities meet stringent sanitation requirements by continuously disinfecting spaces, thereby improving occupant safety and patient outcomes.

DIAGNOSTIC AND RECOVERY ROOMS

Human-centric lighting contributes to positive outcomes across various types of facilities. For hospitals and inpatient facilities, circadian stimulus lighting is conducive to patient recovery and can be a factor in reducing the length of stay.



PARKING FACILITIES

Wireless lighting dimming and switching controls and motion sensors can help reduce lighting output while also addressing safety concerns.

By mimicking daylight to affect behavior and energy levels, residents of assisted living and memory care facilities can be calmed as the brain receives signals to induce relaxation and sleep. Plus, human-centric lighting can lead to better work environments, which ultimately result in better care delivery. Studies show that lighting can contribute to improved employee retention and fewer sick days — expanding the mission of delivering wellness to staff as well as patients.

To begin experiencing the benefits of lighting automation in your healthcare facility or multi-building campus, contact the experts at Control Service Company.

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