Emergency Lockdown Mode

Deliver peace of mind and potentially save lives in critical situations

Avi-on Labs introduces its innovative Emergency Lockdown Mode, designed to empower first responders and facility managers with real-time control and visibility of lighting and occupancy during critical facility lockdown scenarios. Leveraging the core features of the Avi-on Lighting Control Platform, this feature enhances safety by providing dynamic lighting control and movement visualization for emergency response, tailored to the specific needs of these special building events.

WHAT IS AVI-ON EMERGENCY LOCKDOWN MODE?

Avi-on's Emergency Lockdown Mode combines cutting-edge technology with practical functionality to deliver peace of mind in critical situations. With a single trigger from a range of sources, including buttons and links to a wide range emergency notification systems, the entire building's lights can be shut down (or set to a specific dimming level) and locked with a single command. Motion sensors and wall stations are disabled during the event to prevent manual activation of lights or inadvertent motion by occupants signaling their location.

Next, the platform uses existing motion sensors in a special mode to capture real-time movement in the facility and present it on a secure, web-based floorplan dashboard visible only to authorized personnel.

Project		Location/Type	

Finally, through the same visualization platform, first responders can control the lighting to illuminate safe areas, create customized exit pathways, and signal "stay put" or "clear" instructions to occupants using the standard lighting system.

All motion events and actions are recorded for training purposes and legal documentation.

All of this is accomplished with the standard Avi-on lighting control platform, requiring no additional components, gateways, or wiring.

BENEFITS

- Integrates lighting into the emergency response system without additional systems, wiring, or devices.

- Emergency lighting requirements differ from normal emergency egress mode (UL 924) and standard operation. Dedicated functionality ensures the correct response of lighting during emergency events.

- Lighting motion sensors provide the most detailed, widely installed, and cost-effective method of detecting presence and motion within a facility. With Avi-on Lockdown, these devices can be reused in real time without additional hardware investment.

- Real-time visualization of motion (and lack thereof) enables faster and safer evacuation, providing first responders with data to guide safe access, potentially saving lives.

- The existing lighting system offers an intuitive, simple, and well-understood method of communication between first responders and facility occupants. For example: "Lights off, stay put," "Lights on, safe, follow the lights to exit," or "Lights on, all clear."

KEY FEATURES

- Triggers lockdown of facility lighting and disables motion sensors, wall stations, and schedules with a single command.

- Triggers can come from a wall button, contact input, BACnet interface, or web API.

- Trigger mode and Cancel mode are separated, allowing Cancel mode to be initiated from an extra-secure area or off-site.

- Real-time sensor visualization mode provides updates every 30 seconds on motion events. The visualization uses a special aging algorithm to show how recently motion was detected in each space, providing first responders with accurate and actionable information about presence and movement in the facility.

- Dynamic pathway lighting control guides occupants to safety.

- Single sign-on integration manages personnel access automatically through links to school, fire, police, or other single sign-on systems, allowing linked agencies to maintain existing device management and authentication methods.

- The Avi-on lighting control system is highly secure, earning the highest security rating ever awarded by Underwriters Laboratories (UL) to any IoT or lighting system (UL 1376 Diamond).

APPLICATIONS

- Schools and educational institutions
- Healthcare facilities
- Office buildings
- Warehouses and industrial sites
- Public venues and recreation areas