

A photograph of a classroom. In the foreground, several rows of white desks with black chairs are arranged. Each desk has some school supplies like notebooks and pencils. In the background, there is a wooden teacher's desk with a computer monitor, a whiteboard, and a window with blinds. The room is brightly lit.

ELANIO

Lighting-control solutions for academic facilities

Elaho lighting control system



Intelligent lighting for the classroom

Most lighting systems don't meet the needs of a modern-day classroom. They're expensive, use a lot of electricity, aren't compliant with energy codes, are complicated to run, and don't offer enough flexibility. Echoflex Solutions developed the Elaho lighting control system to be a user-friendly, inexpensive alternative.

Teacher's pet

Elaho Inspire stations can be installed anywhere they're needed in a classroom. There can be a single button station by the door to activate all the lights, a second larger station loaded with presets located at the instructor's desk or podium, and additional stations at the back of the room. And with the Space Lockout function, teachers don't have to worry about students changing the lighting without permission.

Elaho plays well with others

The network installs quickly and easily with no configuration required. Its two-wire topology-free bus means that academic institutes don't have to spend the time or money modifying existing infrastructure.



Room Controller

Supports six stations and power controllers, with Astronomical and Real TimeClocks for preset on/off functionality

Light Sensor

Harvests natural light and reduces electronic lighting sources to save energy

Occupancy Sensor

Automatically turns lights on when a room is in use and switches them off when a space is empty

Inspire control stations

Sleek button and fader stations that can be located anywhere for convenient lighting control

Elaho Communications Protocol

A configuration- and topology-free network that includes data and power on a single pair of wires to deliver distributed lighting intelligence

Energy savings that gets all A's

The Elaho system can scale back the amount of energy used in an academic building. On sunny days, classrooms have lots of natural light coming in through the windows. The Elaho Light Sensor harnesses that light and lowers the output of the electric fixtures, reducing power usage. Elaho Occupancy Sensors can be installed in classrooms and other spaces that remain empty for a lot of time during the day, ensuring that the lights are running only when the area is in use. These products also let schools and universities meet required energy codes, including ASHRE 90.1, CA Title 20/24 and IECC standards.

Long division

The Elaho Power Control System can be divided into zones to control lighting classroom by classroom or by smaller groups of lights inside a classroom. That means that the Elaho Astronomical or Real TimeClock can program the lights to turn on and off at a specific time, all in unison. It also brings flexibility to the classroom: the block of lights above a projection or video screen can be lowered or turned off while the rest of the room stays lit, the lights near a window can be dimmed by the Light Sensor while the lights further away can be brighter, or a teacher could turn the lights down above a quiet study spot without affecting other areas.



Inspire Control Stations

- One-, two-, four-, six-, and eight-button stations
- Four-button station with fader
- Consistent and reliable preset zone and space control
- Cream, Gray, Black, or White finish



Dual Tech Occupancy/Vacancy Sensor

- Automatic setting of occupancy or vacancy mode (no configuration)
- Small-room, large-room and high-ceiling options available
- Passive Infrared (PIR) and acoustic detection
- Thirty-second grace timer
- Walk test function
- Available in Black or White



Light Sensor

- Single-head option for indoor, outdoor and atrium settings (0-6500 lux)
- Remote head-mounting option
- Built-in target lux configuration
- Two-sensor averaging for ideal light levels in a light-changing environment
- Available in Black or White



Elaho Room Controller

- Four or eight 20A relays with 0-10V control
- 120-277V discrete feed
- Lighting and plug load capable
- Demand Response contact input
- Astronomical and Real TimeClock
- AV input to trigger AV preset

Elaho Communications Protocol

- No configuration required
- Distributed intelligence with no centralized processor
- Data and power on single pair of wires
- Topology-free wiring
- Optional use of Cat5 cable