



K-12 Education and Classroom Lighting

Networked, flexible wireless mesh controls

K-12 education involves over 130,000 locations across the US. The estimated \$700 billion dollars spent annually on energy is about the same amount spent on books and supplies. With the average age of school buildings at 44 years, and over a decade since any last major renovation. There is significant state and federal funding for energy-efficiency upgrades to lighting and addition of smart wireless control lighting.

Effective lighting strategies for education and afterhours community use need to consider high activity levels in gyms, dynamic classroom activities such as presentations, and static activities such as study periods. Changes to lighting during school time needs to be intuitive and simple. Flexible and remote control abilities give small maintenance teams the ability to manage activities across multiple buildings.



Affordable and Practical

School is in session, or on long breaks. Wireless controls allows installations to easily be done in phases, minimizing down time and disruptions.



Grouped Fixtures or Individual Fixture Options

Whether retrofitting or new construction, project teams can select the best approach for each specific facility or combine zone based control for specific uses such as lab presentations or study hall, and individual fixture control for hallways or offices.



Proven Energy Efficiency

DLC certified (NLCS) networked lighting controls systems earn rebate eligibility from many power utilities. Capture valuable rebates and incentives with the largest selection of DLC-certified controls available in the marketplace.



Web-portal and App-based Design and Control

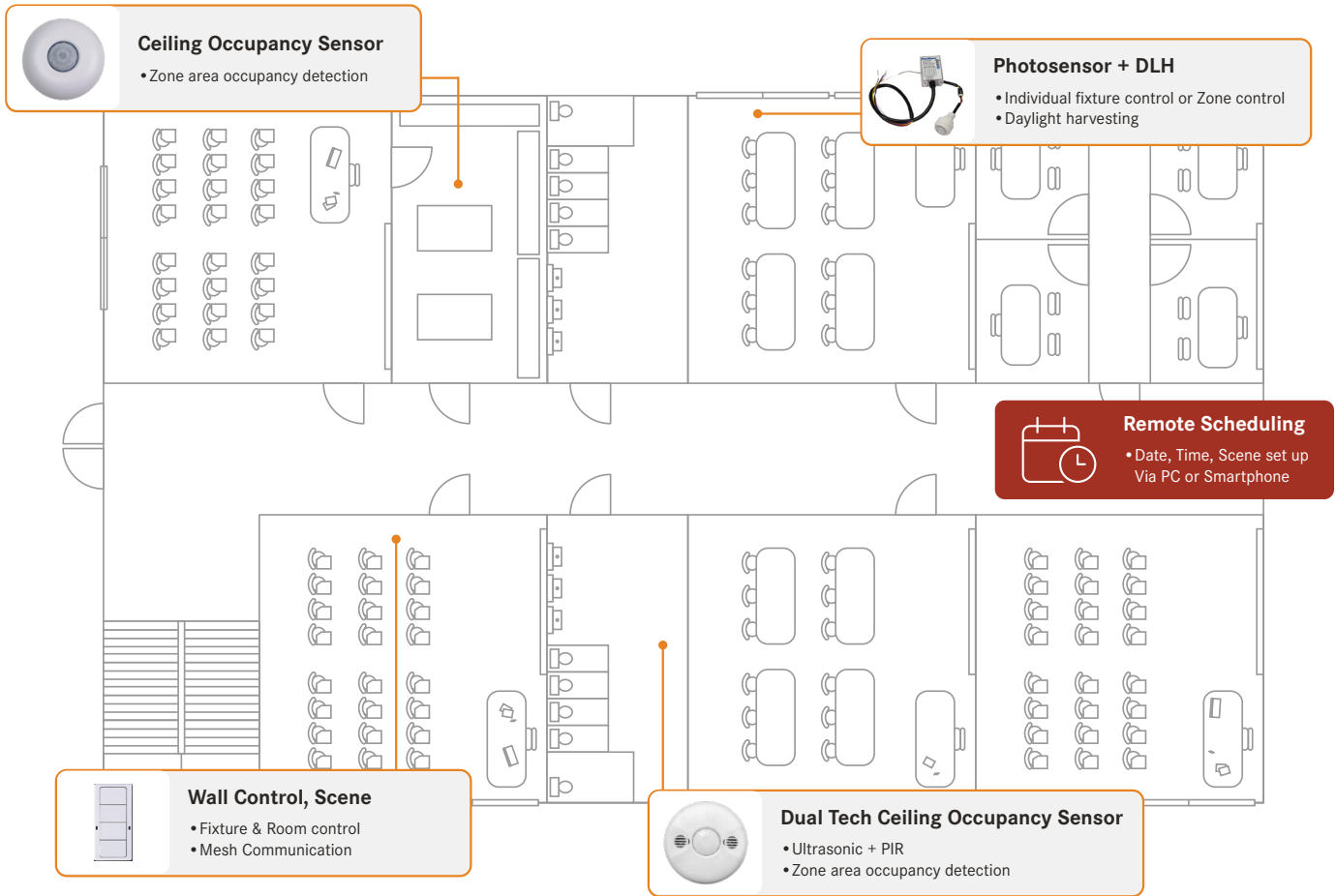
User-friendly control from PC based web-portal and smartphone apps streamlines design, startup, and future network adjustments.

*California Energy Commission Consumer Energy Center: Energy Tips for Schools

** 2017-18 data from the National Center for Education Statistics (NCES).

***EducationWeek "Data US School Buildings: age, condition and spending"

Network retrofit and new spaces easily



TYPICAL CONTROL PROFILES

Zone	Scenario	Description
Classroom and lab	Scene control + daylight harvesting, override switch	Lighting on at 20% of set lux level during daytime, increase to 80-100% with dusk; Change scene to "Lecture" from "study". Override by Teacher for quick presentation
Daylight harvesting	Daylight harvesting sensor	Lighting on at 20% of set lux level during daytime, increase to 80-100% with dusk
Teacher prep room	Occupancy sensing	Lighting ON 100% with staff present, 15 min delay to DIM with no activity, 30min delay to full OFF
Hallway	Scheduling	100% On during school hours; 75% for after school hours; 20% dim with scheduled non-working time