occu-smart®

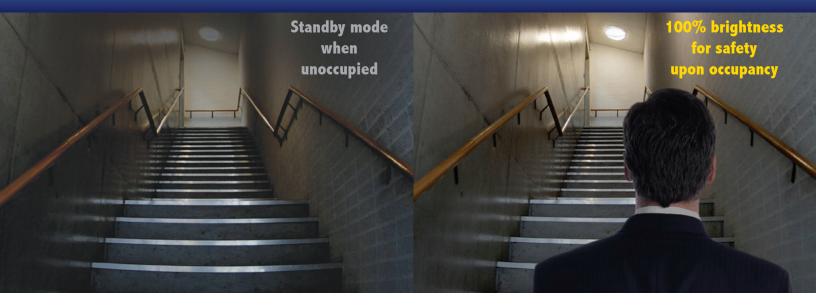
From the Originator and Leader in Integrated Motion Sensor Controls



DESIGNED*BUILT☆BACKED*IN THE USA



Occu-smart® allows for maximum energy savings. Energy use is as little as 3 watts in standby mode when a space is unoccupied, then lit to 100% brightness for safety upon occupancy.



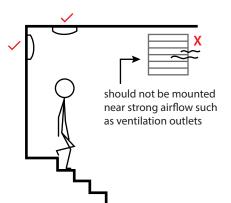
Maximize energy savings with occu-smart® patented* motion sensor controlled bi-level lighting technology.

Ultrasonic ((-))

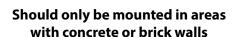
Offers multifloor detection

Ultrasonic occupancy sensors emit sound waves beyond the ability of humans to detect. The sound waves bounce off walls and objects in the room. The sensor measures the time for the waves to go round trip. A timing disruption of the wave pattern results in a Doppler shift. The logic of the sensor says the space is occupied and the lights remain ON or full brightness. When a specified period of time passes with no Doppler shift, the lights turn OFF or dim to low.

Because ultrasonic sensors can bounce sound waves with 360 degree coverage throughout a three dimensional space, they can detect motion around barriers such as staircases, workspace partitions, shelves and other obstacles in the room. Ultrasonic sensors also have the ability to detect smaller movements compared to passive infrared sensors and thus are very well suited to stairwells and corridors. Small movements such as a door opening will trigger the sensor.



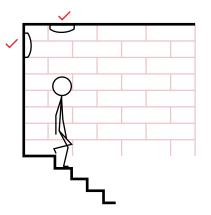
HF (High Frequency)



May detect motion through sheetrock or plaster walls

High frequency sensors emit high frequency electromagnetic waves into the controlled area. Movement in the area causes a change in the waves' echo, resulting in occupancy detection. These sensors operate at 5.8 GHz and can detect motion through many materials including glass, sheet rock walls, wood doors and the lens of a fixture, enabling the sensor to be hidden from view.

If you have concerns about whether the use of an HF sensor is right for your specific application, please contact the factory.



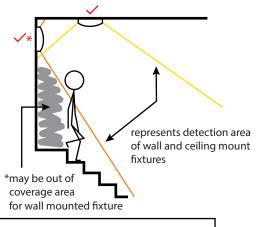
PIR (Passive Infrared)



Line of sight only

A passive infrared (PIR) sensor measures infrared light emitted from objects that generate heat, and therefore infrared radiation, in its field of view. All living things give off heat and these sensors can detect that heat.

Passive infrared sensors work by measuring the infrared energy of the surrounding environment. When a human or animal enters an area covered by passive infrared sensors, the increase in infrared energy tells the sensor that someone or something is moving through the area.



Symbol Key:

(((÷))) Ultrasonic Sensor



Infrared Sensor



Available with Daylight Sensor

High Frequency Sensor



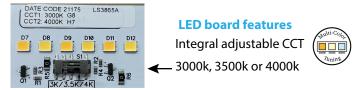
Available with Emergency Battery Back-up (Battery Packs)

What is occu-smart bi-level technology?

On average, high-rise stairwells are occupied less than 2% of the time. That means that 98% of the time you don't need your light fixtures fully illuminated. Occu-smart was designed with automatic bi-level lighting capabilities so fixtures dim to a standby light level when an area is unoccupied, providing greater energy savings while still keeping the area lit.

Most units are available in bi-level or full on/off so no one is ever left in the dark! All occu-smart luminaires feature fully integrated sensors. Please consult local building codes for specific requirements.





The VOL Gen5 is an attractive LED bi-level luminaire featuring US made metal core boards (MPCB), field adjustable color via dipswitch, field adjustable output power when in normal mode and field adjustable standby dim levels of 5-100% of full light output - programmable via Bluetooth® App



The Titan Ultrasonic is an economic alternative to our Voyager G3. This luminaire features an ultrasonic motion sensor, low level adjustability of 10, 25 or 50% and factory set occupied mode output.







Ideal for: Stairwells, utility rooms, rest rooms, locker rooms Mounting type: Ceiling or wall mount Available in 2' & 4' sizes



Ideal for: Stairwells, utility rooms, rest rooms, locker rooms Mounting type: Ceiling or wall mount Available in 2', 4' & 8' sizes Round & no lens options are DLC° qualified

Integrate occu-smart technology into your facility!

Occu-smart luminaires are saving energy worldwide - Motion sensor technology can be integrated into most of our luminaires. Simply choose a fixture style, sensor technology and/or CCT and output level from our comprehensive product line or consult a LaMar professional for information on how to best use occu-smart technology for your application.





Narrow Linear Series LED (NL)







Ideal for: Schools, conference rooms, offices or continuous run applications Mounting type: Consult factory for options 2'-8' models - consult factory for options



EasySense





Ideal for: Educational, retail, offices and conference rooms Mounting type: Cable mount individual or continuous rows Available in 4' and 8' sizes



EasySense



Ideal for: garages, utility rooms, gymnasiums, retail stores, assembly lines Mounting type: Surface or suspended Available in 4' and 8' sizes



Ideal for: Residential, commercial and industrial spaces Mounting type: Ceiling, pendant or wall mount May be mounted in continuous runs (optional lens joiner band required) Available in 2', 4' and 8' sizes

Occu-Smart motion sensor technology is installed in thousands of buildings worldwide!

US State Dept Rivercross, Roosevelt IsI Marriot Gateway, GA Merck & Co., NJ Hofstra University School of Medicine Hershey Park, PA Starrett City Madison Square Garden, NY Boston Museum of Science Norfolk Virginia Courthouse Good Samaritan Hospital, NY Courtyard Marriot, NY Hilton Hotels Minot Air Force Base Indiana University, IN Arnold Air Force Base, TN NBC Universal, NY Disneyworld, FL Columbia University And Many More

Ultra high frequency sensors are available in a variety of luminaire styles for exterior and interior applications

Optional sensor functions available including daylight hold off, fade to dim, adjustable high/low and the option to be daisy chained with other sensors.



Ideal for: Corridors, rest rooms, hotels, lobbies, apartment complexes Mounting type: Surface mount on ceiling or walls



Saturn (SUNLD) 18" round



Ideal for: Stairwells, corridors, utility areas Mounting type: Surface mount on ceiling or walls (ADA compliant)



Guardian - Round (GNL)



Ideal for: Parking garages, entry areas, building exteriors, walkways, stairwells (faceplates and lenses available in multiple options)

Mounting type: Suitable for ceiling or wall mounting Exterior finishes: White, bronze

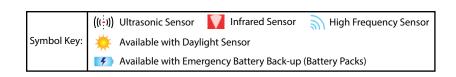
Lens finishes: Frosted ribbed or translucent white

Translucent White

Exterior Finishes



Frosted Ribbed



LaMar LED Specializes in **Integrated Sensor Controls**

Many Models Available With:







Outdoor on/off or dimming



On/off or dimming optional daylight



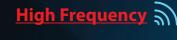


Philips Easy Sense

- Combines functionality to reduce need for multiple components
- Easy field configuration of control parameters
- Quick tuning in the field to optimize light and power levels
- Cost-effective solution for energy savings and code-compliancy strategies

Ultrasonic (((-))





(((Wireless receiver Wireless transmitter)))



With dimming & optional fade to off



On/off



With dimming & optional fade to off





Remote control



Photocell on/off



Visit occusmart.com for more information

Technology Enhanced Lighting





Specializing in Custom Design and Manufacturing

Most products proudly made in our Farmingdale, NY factory!





DESIGNED * BUILT * BACKED * IN THE USA



Wireless Mesh

About LAMAR LED

Since 1957, LaMar Lighting (now LAMAR LED) has been an acknowledged leader and innovator in the lighting industry with a wide assortment of LED and fluorescent fixtures for residential, commercial and industrial use. Specializing in custom design, as well as offering a full line of standard fixtures, LAMAR LED combines contemporary styling with cost efficient solutions for every application.

All units are UL listed and most union made. Bi-level lighting units meet requirements of the life safety code and are approved by the NY City Department of Buildings. Whatever your lighting needs, LAMAR LED's experienced lighting professionals are always ready to offer a full range of advanced, energy saving solutions.