You can save up to 60% of lighting electricity usage with this wireless smart control system.

**THIS SYSTEM INCLUDE:**

1. **Power Pack 0-10V dimming module**: which control load according to radio frequency (RF) command sending from sensor or dimmer.
2. **Wireless PIR occupancy / vacancy sensor**: which detect people movement to see if the space is occupied, then send wireless command to dimming module to control the light on/off/dim automatically.
3. **Wireless daylight harvest sensor**: which measure light in the space, then wirelessly transmits the light level to the associated dimming module that automatically control the lights to balance light level in the space.
4. **Wireless Dimmer**: which can be used to manually turn on/off and dim lights.

**NOTE:**

- You will need to have one 0-10V dimming module + at least one wireless transmitter PIR sensor / daylight sensor / dimmer + 0-10V LED driver to control the system.
- All wireless transmitters are battery powered, sending RF command to control all dimming modules in the RF range up to 30 m.
- One dimming module can be controlled by 5 remote control dimmers, 4 PIR sensors, 1 daylight sensor at most.
Power Pack 0-10V Dimming Module

Mounts through standard knockout on electrical box without moving any previous wire.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Voltage</th>
<th>Standby Power</th>
<th>Max. Current</th>
<th>Max. Power</th>
<th>Frequency Band</th>
<th>RF Range</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPA401S</td>
<td>120V/277V 50~60Hz</td>
<td>0.6W</td>
<td>10A</td>
<td>1200W</td>
<td>443.92Mhz</td>
<td>30m</td>
<td>Indoor use</td>
</tr>
</tbody>
</table>

Dimension

1/2" in 21mm trade-size knockout opening

Wiring Schematic

Housing mounts into standard 1/2" knockout on lighting fixture or junction box. Wire feed through knockout for connection inside lighting fixture or junction box.

1/2" in 21mm trade-size knockout opening

120-277V 50/60Hz

Black (Hot)

Green (Ground)

Red (Hot)

Conduit Nut

To LED Driver

Black, Green, Red, White #16/3 stranded wire only

LINE 120-277VAC 50-60Hz

Purple, Grey

Load #16/3 stranded wire

Red (Hot)

White (Neutral)

Neutral (White)

Black (Hot)

White

Load

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Manually turn on/off and dim lights anywhere in the space
Easy configuration for use as a handheld control or wall-mount control

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Voltage</th>
<th>Standby Current</th>
<th>Battery Life</th>
<th>Frequency Band</th>
<th>RF Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>WP401</td>
<td>3V</td>
<td>&lt;1uA</td>
<td>10-year</td>
<td>443.92Mhz</td>
<td>30m</td>
</tr>
</tbody>
</table>

**Dimension**

Quick Setup:

1. Push PAIR on power pack
2. Push ON/OFF button for 3s to PAIR with power pack
   - You will hear a beep indicating the dimmer has linked with the power pack.
3. Try the buttons to see if light is successfully controlled
Wireless PIR Occupancy / Vacancy Sensor

Mount sensor to have a best unobstructed view of the whole room, far away from hot object.

Setup easily on surface buttons.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Voltage</th>
<th>Standby Current</th>
<th>Battery Life</th>
<th>Frequency Band</th>
<th>RF Range</th>
<th>Field-of-view</th>
<th>Detect Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS401</td>
<td>3V</td>
<td>2.5uA</td>
<td>5-year</td>
<td>443.92Mhz</td>
<td>30m</td>
<td>120°</td>
<td>4m-15m</td>
</tr>
</tbody>
</table>

**Quick Setup:**

Choose Mode 1 Occupancy mode: light need to be manually switched on with manual controller, delay time 30min, automatically off if no people detected in 30min. This mode is usually for meeting room.

Mode 2 Auto-on: Light automatically on once detect people, automatically off or go down to dimming level after people leave.

1. Push PAIR on Power Pack 0-10V dimming module, the small led on dimming module will flash quickly.
2. Push PAIR on PIR sensor for 3s.
   You will hear a beep indicate the sensor has linked with the dimming module.
3. Set Timeout: 10s (as test mode) 5min 10min 30min 60min.
   Set Dimming level: Off 10% 30% 50%. After people leave, light will off or dim to this level automatically.
   Set Sensitivity: 30% 45% 60% 80% 100%.
4. Hold SETUP for 3s to save setting, small led light on sensor flash twice indicate set up.

**Default Setting:**

Timeout: 10min
Dimming: Off
Sensitivity: 100%

**Flashing red lens indicates Low Battery / Customized default setting is available**
Wireless Dual-tech PIR/Daylight Sensor

This model is IP66, widely used for inside or outdoor situation, which can be installed on the surface of any outdoor light or on any subject where you want the sensor to detect people.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Voltage</th>
<th>Standby Current</th>
<th>Battery Life</th>
<th>Frequency Band</th>
<th>RF Range</th>
<th>Mount Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCS401</td>
<td>3V</td>
<td>2µA</td>
<td>5-year</td>
<td>443.92Mhz</td>
<td>30m</td>
<td>Max 15m</td>
</tr>
</tbody>
</table>

Quick Setup:

1. Push PAIR on Power Pack dimming module, the small led on dimming module will flash quickly.
2. Hold PAIR on sensor until hear a beep indicate the sensor has linked with the dimming module.
3. Chose Mode 1: Occupancy mode
   Chose Mode 2: Streetlight mode, light Automatically on after ambient light is lower than the LUX value you set.

Please refer to the below form to setup:

<table>
<thead>
<tr>
<th>Sensitivity</th>
<th>Delay Time</th>
<th>Dimming Level</th>
<th>Dimming Time</th>
<th>Light sensor LUX</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0%</td>
<td>Permanent on</td>
<td>10min</td>
<td>50Lux</td>
</tr>
<tr>
<td>2</td>
<td>10%</td>
<td></td>
<td>10min</td>
<td>30Lux</td>
</tr>
<tr>
<td>3</td>
<td>30%</td>
<td></td>
<td>10min</td>
<td>10Lux</td>
</tr>
<tr>
<td>4</td>
<td>50%</td>
<td></td>
<td>10min</td>
<td>Permanant off</td>
</tr>
<tr>
<td>5</td>
<td>80%</td>
<td></td>
<td>10min</td>
<td>Light sensor off</td>
</tr>
<tr>
<td>6</td>
<td>100%</td>
<td></td>
<td>60min</td>
<td>50Lux</td>
</tr>
</tbody>
</table>

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Wireless daylight harvest sensor

Balance and dim the light in response to available daylight.
Surface mount about 2-3m away from the window facing the sunlight, far away from strong electrical lights.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Voltage</th>
<th>Standby Current</th>
<th>Battery Life</th>
<th>Frequency Band</th>
<th>RF Range</th>
<th>Light Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>BDS401</td>
<td>3V</td>
<td>2uA</td>
<td>5-year</td>
<td>443.92Mhz</td>
<td>30m</td>
<td>0 to 1000 lux</td>
</tr>
</tbody>
</table>

Quick Setup:
1. Push PAIR on Power Pack 0-10V dimming module, the small led on dimming module will flash quickly.
2. Push PAIR for 3s on Daylight Sensor.
   You will hear a beep indicate the sensor has linked with the dimming module.
3. Set lights in room to desired light level with manual controller.
4. Push CAL to calibrate the daylight sensor.
   The sensor will collect the Current Light Level in room, and dim the light according to this level you calibrate. When you push CAL, please do not point the transparent hole to strong light or very dark place, it may collect wrong light level. Find a place where is about 1-2m away from window with proper light level you want, point the daylight sensor (the transparent hole side, and don’t cover the hole) to window with proper daylight, then push CAL, small green led flash.
5. Push TEST to enter into test mode, the white led light of the sensor will flash to indicate test mode.
   Cover the sensor to see if the lights in room dim up, shine the sensor to see if lights dim down. It takes about 10 seconds to dim, if the performance is not that good, repeat last step to CAL another light level.
6. After calibration, hold TEST for 3s until two small leds (green and red) on sensor flash once to quit test mode. Important, or battery will power off very soon.
   After quitting test mode, the sensor will not react and dim lights quickly as test mode. Because sun light changes very slowly, so the sensor is designed to react half an hour, so as to guarantee the battery life.