



Simple, scalable, wireless
lighting control

 DESIGN

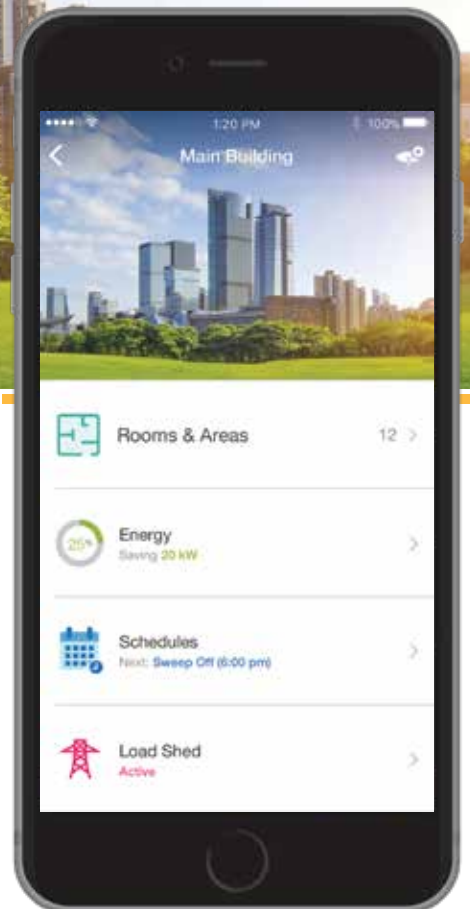
 INSTALL

 MAINTAIN



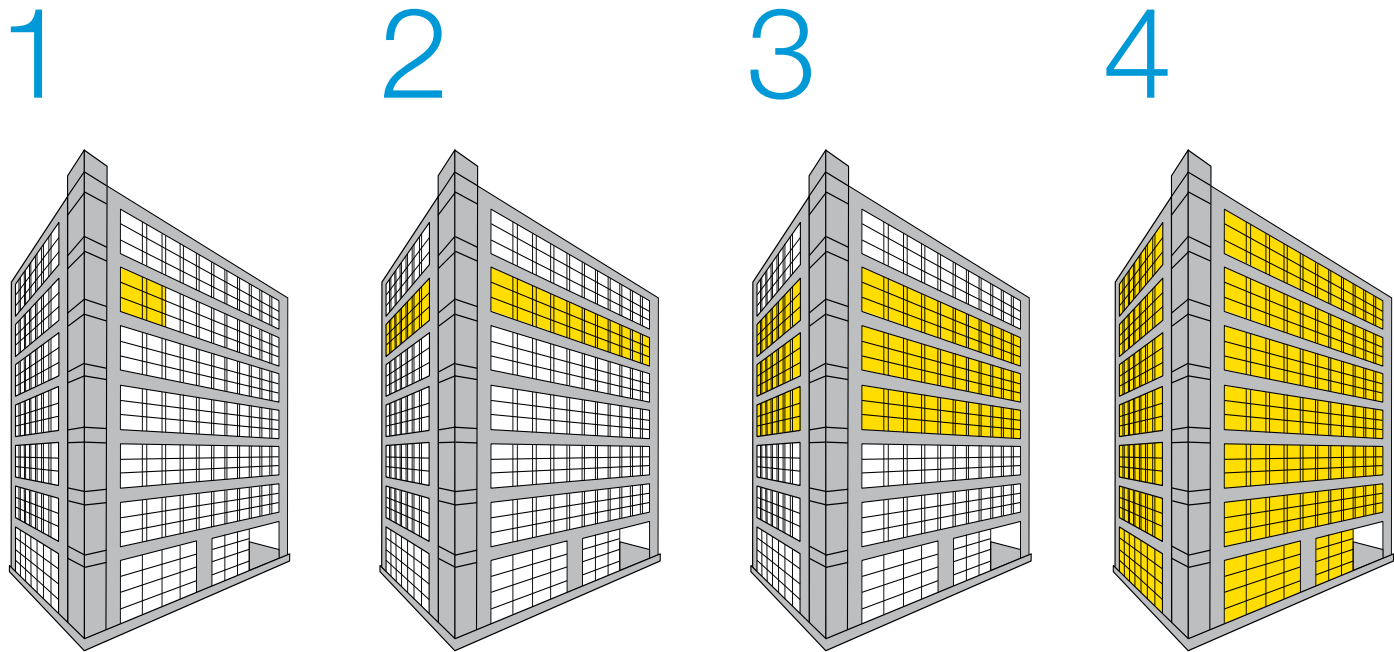
Flexible control every step of the way

Introducing a simple wireless lighting control solution
for new and existing commercial buildings.





Vive wireless solutions offer a multi-strategy approach that accommodates your budget and performance needs now, and for the future of your building.



Single office space

Start by adding control in a single space and expand as budgets and occupant schedules allow.

Single floor

Expand to new areas or an entire floor at any time without reprogramming or replacing existing equipment.

Multiple floors

Duplicate the success of one floor across other floors as your business expands or tenants change. Control can be independent on each floor, or linked via Vive wireless hubs.

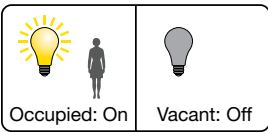
Entire building

Vive offers seamless integration to other building management systems to control every light in your building.

Combine lighting control strategies to maximize efficiency

What is the savings opportunity?

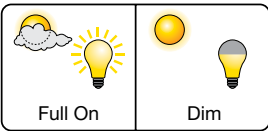
Lutron solutions can save 60%³ or more lighting energy.



Occupancy/vacancy sensing turns lights on when occupants are in a space and off when they vacate the space.

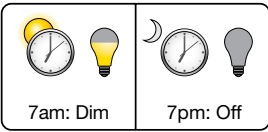
Potential savings

20–60%
Lighting⁴



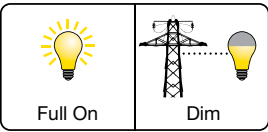
Daylight harvesting dims electric lights when daylight is available to light the space.

25–60%
Lighting⁵



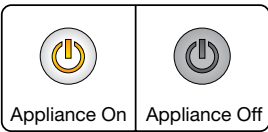
Scheduling provides pre-programmed changes in light levels based on time of day.

10–20%
Lighting⁶



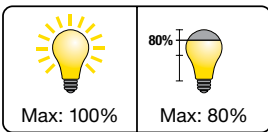
Demand response automatically reduces lighting loads during peak electricity usage times.

30–50%
Peak Period⁷



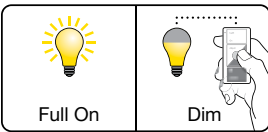
Plug load control automatically turns off loads after occupants leave a space.

15–50%
Controlled Load⁸



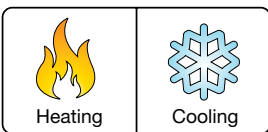
High-end trim sets the maximum light level based on customer requirements in each space.

10–30%
Lighting⁹



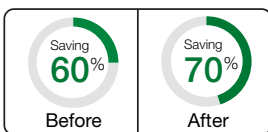
Personal dimming control gives occupants the ability to adjust the light level.

10–20%
Lighting¹⁰



HVAC integration controls heating, ventilation, and air conditioning systems through contact closure, or BACnet protocol.

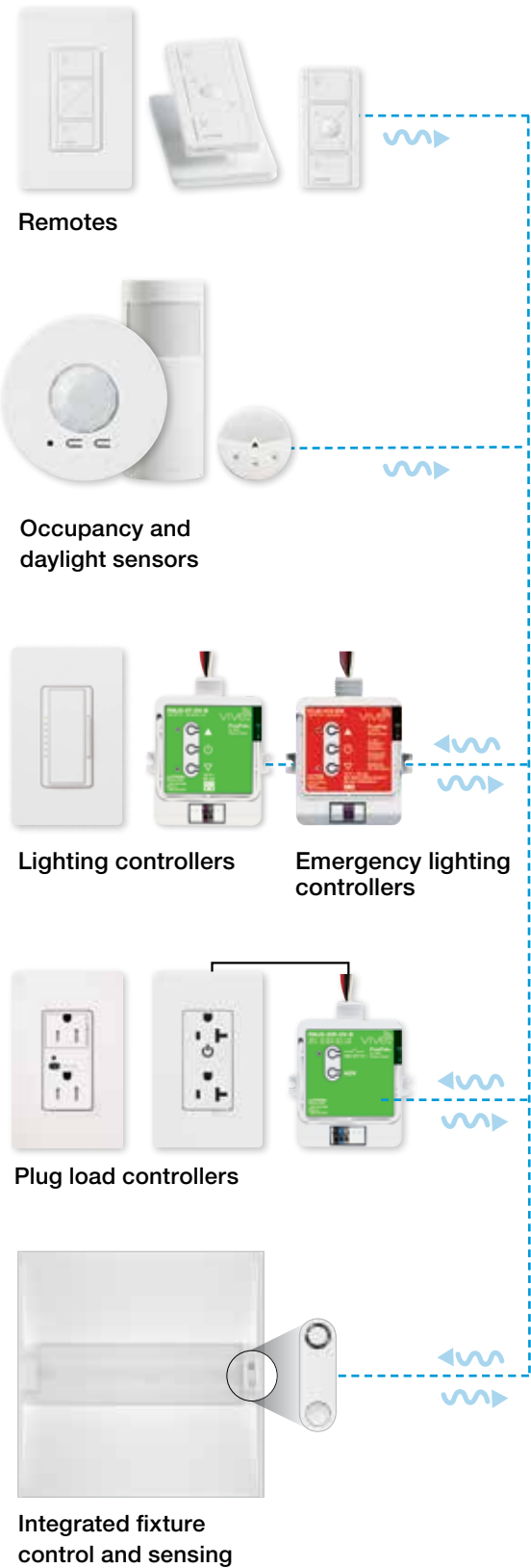
5–15%
HVAC¹¹



System Optimization Service from Lutron identifies important lighting control adjustments to save additional energy and create a more productive work environment on an ongoing basis.

Variable

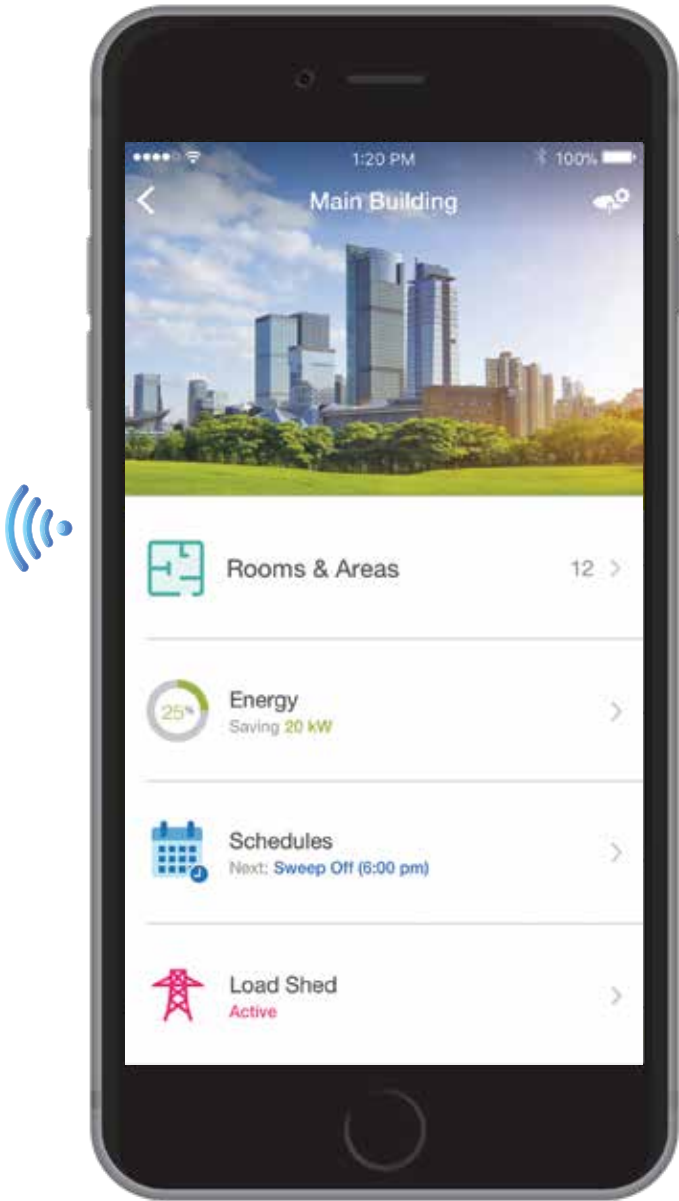
Flexible, wireless controls and sensors for simple, code-compliant design



Add wireless hubs for centralized control and integration (optional)



Simple-to-use software



Vive Vue software

Communication protocols



The right control in the right space

The Vive product family lets you personalize control to each space in your building without locking you into more or less control than you need

Simple switching

Restroom

Occupancy sensors control all lights together by switching lights on and off in response to room occupancy.



Switch | Occupancy sensor

Area dimming and sensing

Private office

Dim a group of lights together while also providing manual control. Save additional energy with daylight harvesting.



Dimming module | Occupancy sensor | Daylight sensor | Pico remote

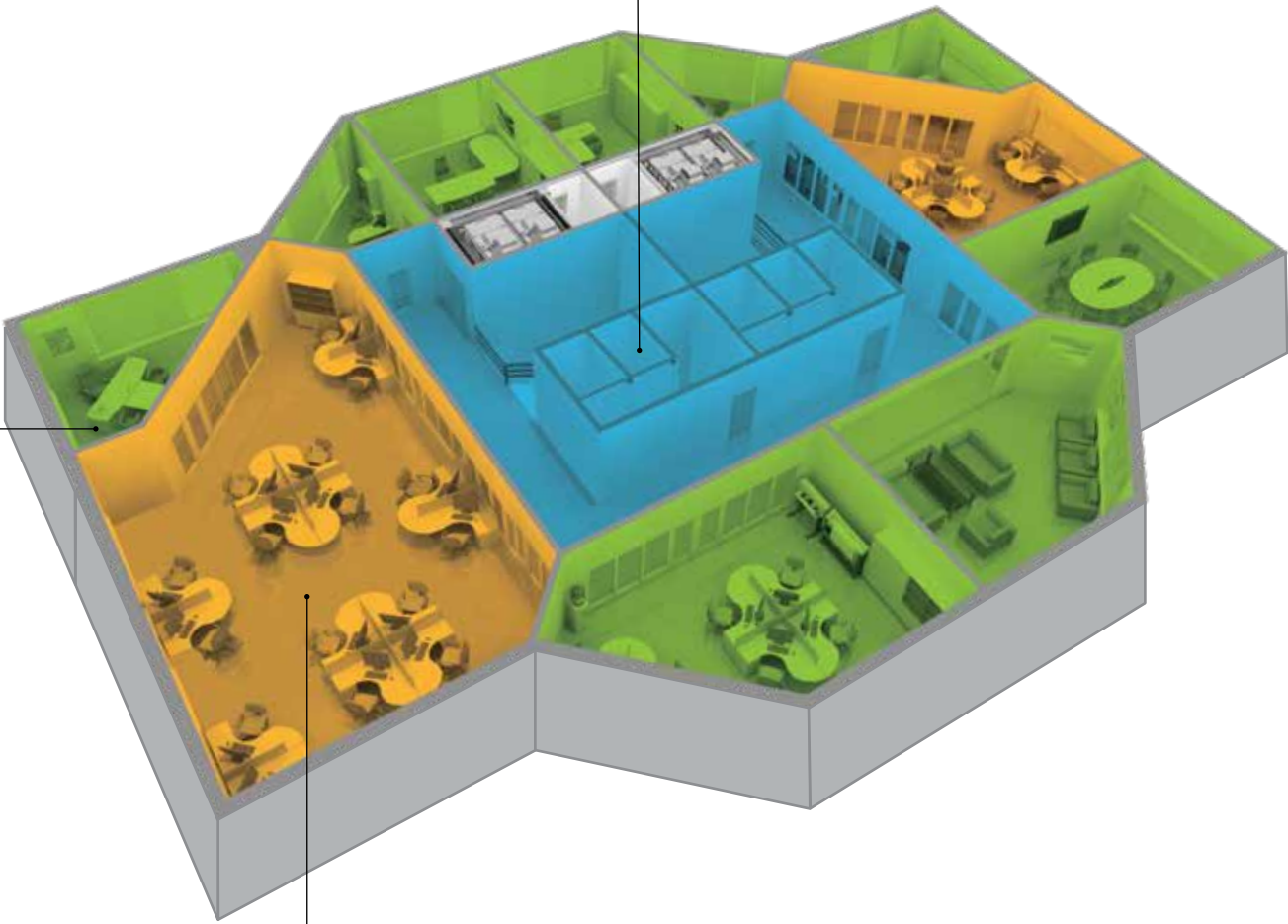
Individual fixture dimming and sensing

Open office

Reduce labor cost while maximizing energy savings to give each occupant personal dimming control — increase comfort and enhance productivity.



Fixture control | Pico remote

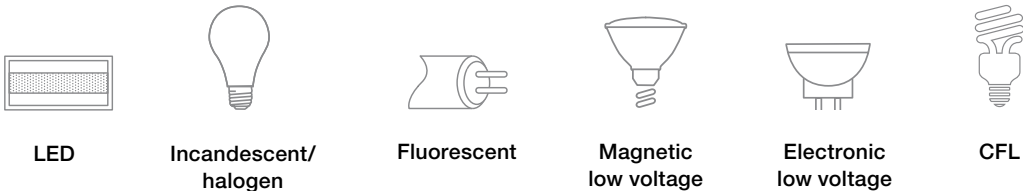


Vive wireless solutions — Choose any load and control type

Any control type

- High-performance dimming with Lutron Hi-lume EcoSystem
- Other control types
 - 0-10V
 - Phase control
 - Switching
 - CCO

Any load type

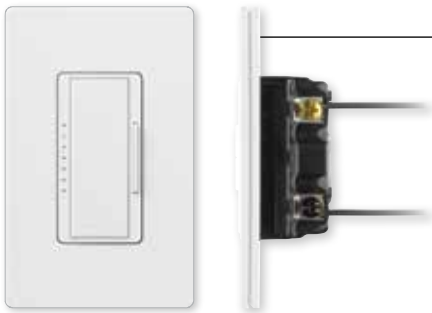


Simple retrofit — installs 70%¹ faster than wired systems

Vive wireless solutions reduce installation time and cost regardless of where they are installed or which or solution you choose.

Wallbox mount

- Replace an existing switch in a standard wallbox to control a group of lights
- No new wiring required – works with the existing wiring
- Switching and dimming options available
- Communicates wirelessly to sensors and remotes



Wireless switch/dimmer

Wallbox mount



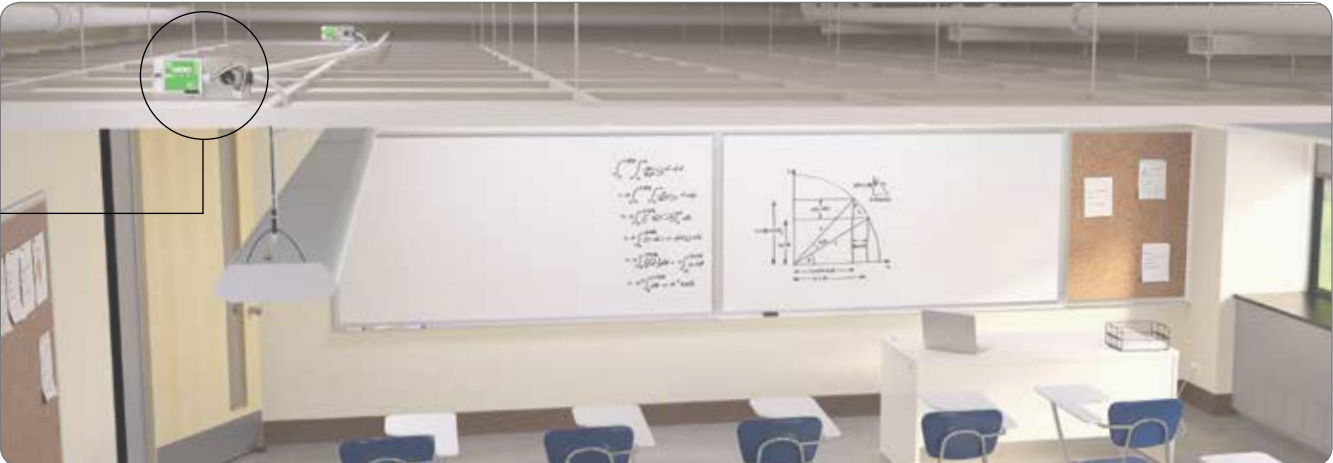
Ceiling mount

- PowPak modules mount on a standard junction box in the ceiling to control a group of lights
- Saves installation time by eliminating wiring down through walls
- Switching and dimming options available
- Communicates wirelessly to sensors and remotes



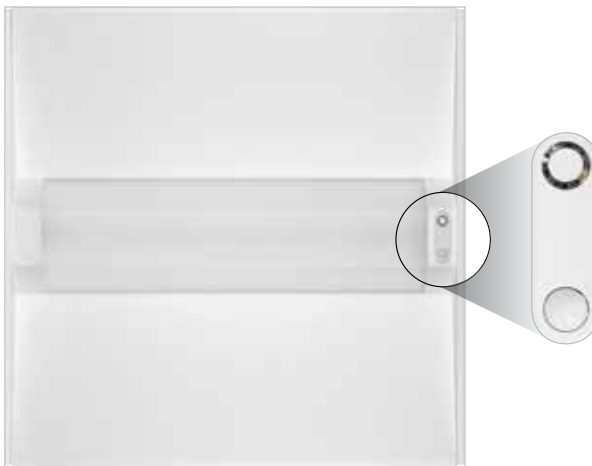
PowPak with J-box

Ceiling mount



Vive-enabled fixtures

- Wireless control and sensing built into the fixture at the factory
- Simple to design and estimate—just count the fixtures
- No additional wiring
 - Works with existing high-voltage wiring, regardless of room layout
 - No new wiring between fixtures
- Provides personal control for each occupant to maximize comfort and energy savings
- Communicates wirelessly to sensors and remotes



Integral fixture control

Vive-enabled fixtures



Simple setup and programming options with the Vive wireless hub

Mobile phone setup

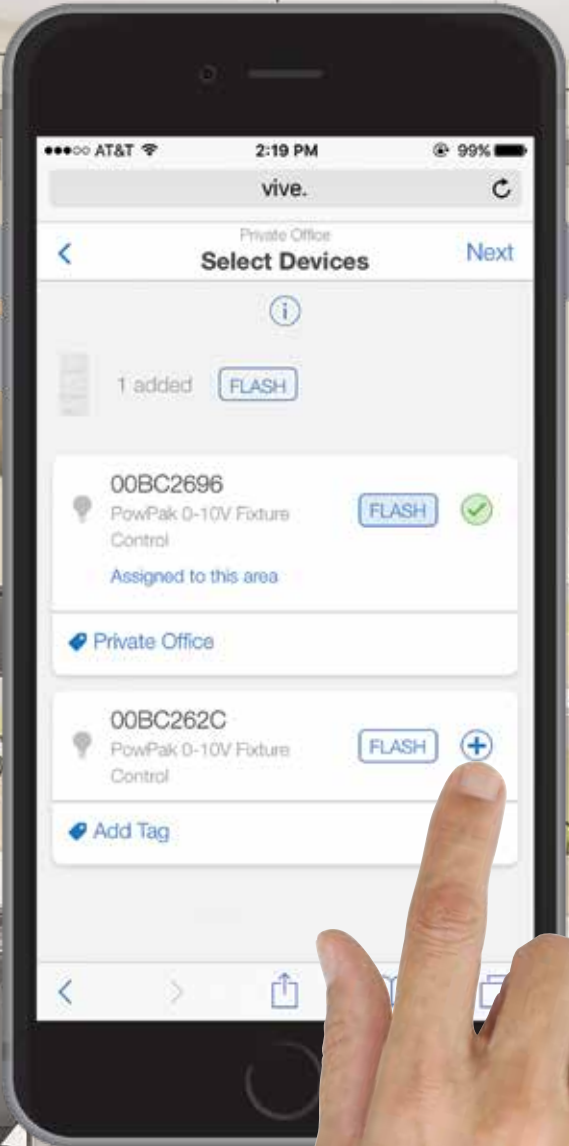
Using Vive Vue software on any smart device you can wirelessly connect system controls and program system settings—no ladder required. Lutron’s patent pending RF signal strength detection automatically finds nearby devices making job setup faster.

1

Press and hold on wireless device

2

Automatic fixture identification
Lutron patent pending technology automatically finds and sorts the wireless devices closest to the control



For systems without a Vive wireless hub

Push button set up

Use simple button-press programming to select and associate wireless devices—it’s as easy as setting a station on your car radio.



Wireless dimmer

Press and hold for 6 seconds



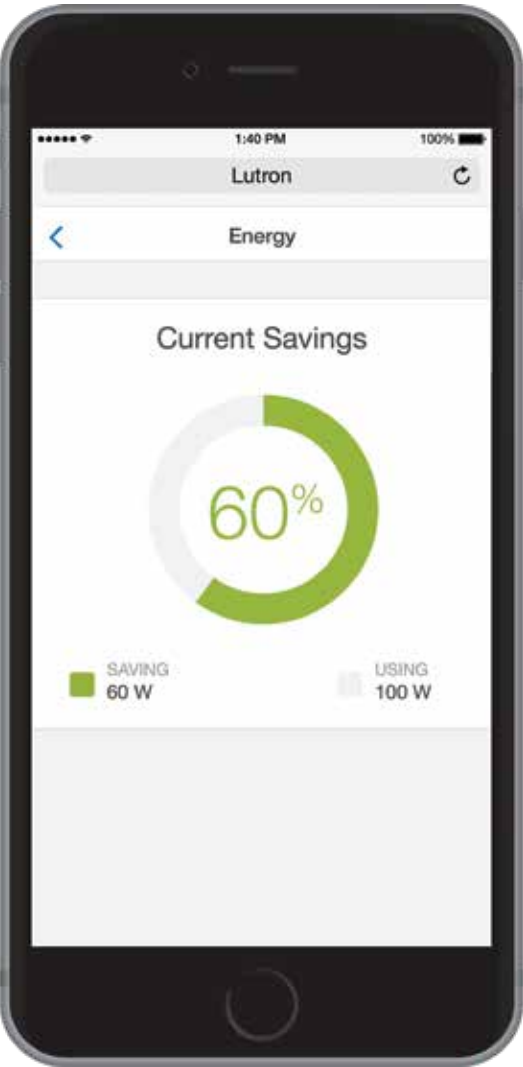
Occupancy sensor

Press and hold for 6 seconds
It works! Sensor now talks to the wireless dimmer



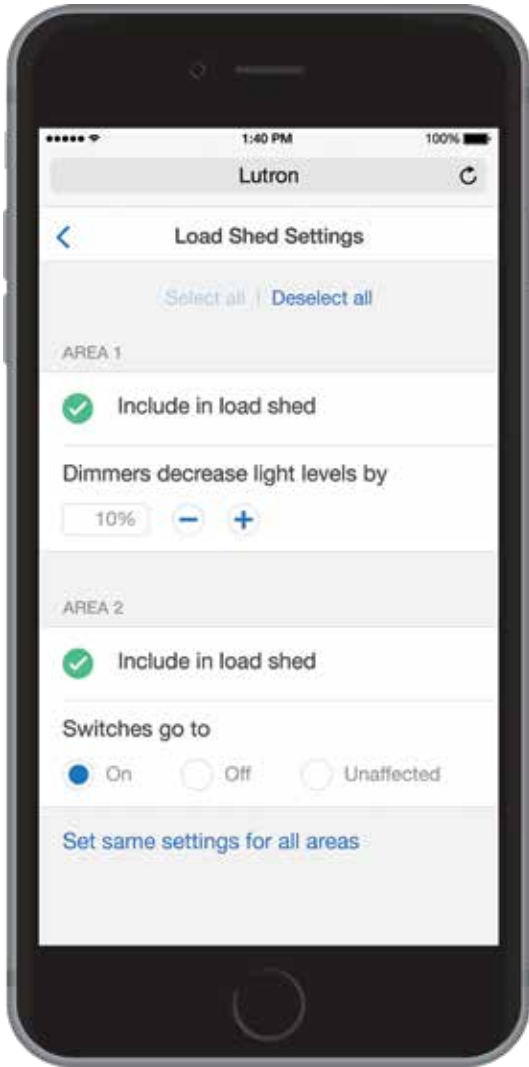
Energy reporting

Quickly view and display energy-usage information to drive decision making and demonstrate savings.



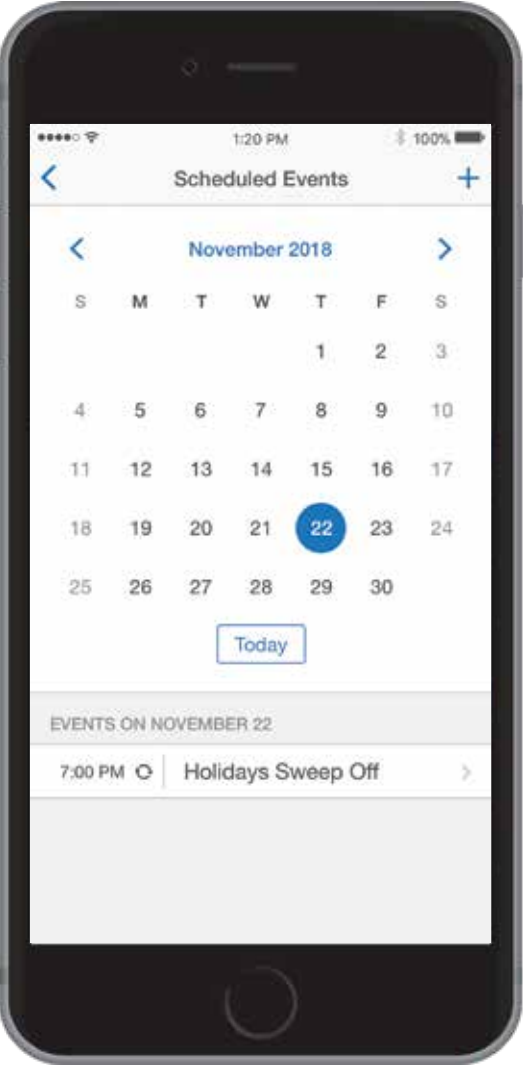
Load shed

Easily set lighting reduction levels that automatically respond during peak electricity usage times.



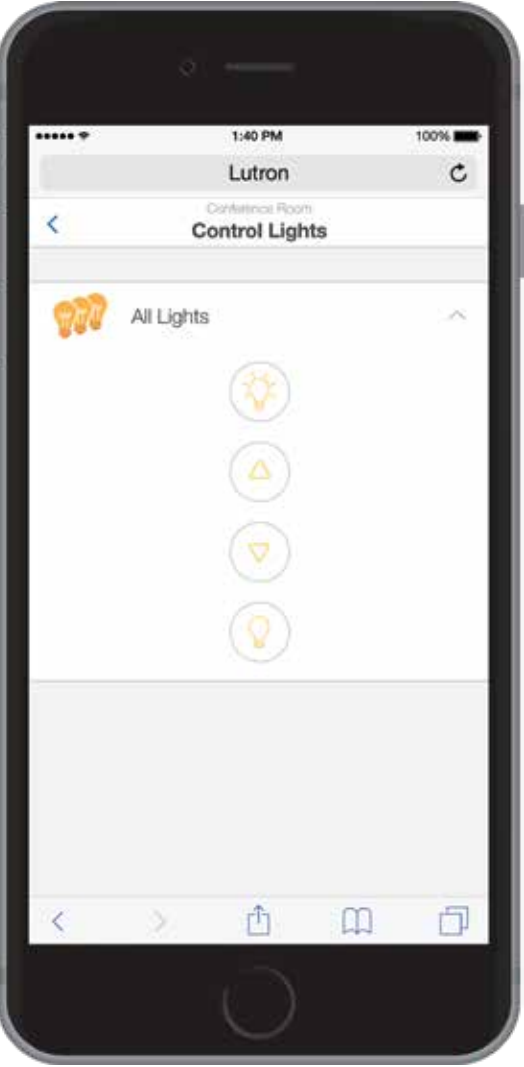
Schedules

Use a 365 day calendar to automatically adjust lights based on time of day, including single day and holiday events



Light Control

Directly adjust the light levels.



Seamlessly integrate with your building system

The BACnet/IP protocol is the primary means of integration. BACnet is embedded or native in the Vive wireless hub, which means no external interfaces or gateways are required in order to communicate with other systems.



 Building/Energy Management Systems (BMS/EMS)



Energy Dashboards and Analytics Packages



HVAC



Audio & Video



IT

A smart building is now simple

Vive Vue software

Vive Vue software now provides the ability to tie multiple Vive hubs together in one software interface. Built with the simple, scalable, wireless building blocks of the Vive Wireless system, Vive Vue software now delivers the advanced intelligence necessary for today's smart buildings and the IoT. A smart building is now easier than ever to achieve.



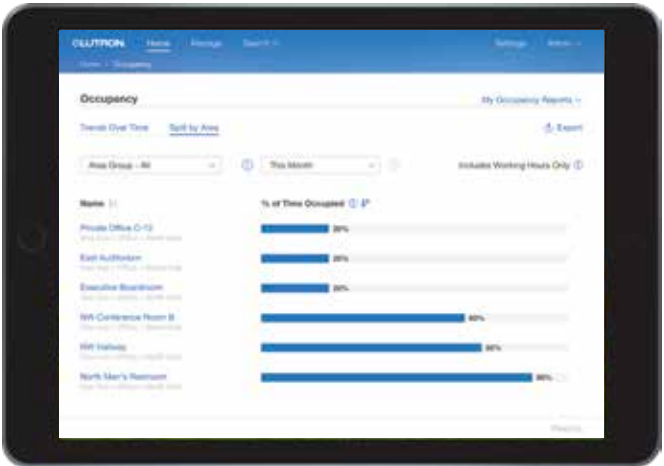
Intuitive control

View status, control lights, and optimize your building quickly and efficiently with a graphical floorplan.



Optimize your space

Improve building layout based on actual occupancy and usage information. With space utilization reports, you can quickly identify over-used and under-used spaces to improve building efficiency without expanding the building footprint.



Save energy purposefully

Energy reports allow you to view and monitor your energy savings. With trending energy information over time, and easily customizable reports, Vive Vue software helps you demonstrate the energy-saving advantages of wireless lighting control.





We build security into the product and the process from conception to installation, and through the lifetime of the system.

Everything we do is backed by Lutron’s first, and guiding, principle — Take Care of the Customer with Superior Goods and Services. Every product, every system, and every solution is designed, manufactured and tested to work as expected.

Security by Design

When building any new system, Lutron utilizes a dedicated security team to ensure best practices are implemented. Security is built-in. It is not an afterthought or add on.

Examples of security features designed into Vive include:

- 1. Isolated wired and wireless architecture which strictly limits the possibility of the Vive Wi-Fi or ClearConnect being used to access the corporate network to gain confidential information
- 2. A distributed security architecture — each hub has its own unique keys
- 3. NIST-recommended best practices for securing passwords, including salting and use of SCrypt
- 4. AES 128-bit encryption for network communications
- 5. HTTPS (TLS 1.2) protocol for securing connections to the hub over the wired network
- 6. WPA2 technology for securing connections to the hub over the Wi-Fi network

3rd Party Validation

Security is complicated. Lutron has a dedicated team of internal experts, but we also leverage external experts to double- and triple-check our work.

- 1. Multiple external experts engaged during design process
- 2. 3rd-Party penetration testing to identify and fix potential vulnerabilities before they reach the field

Continuous Monitoring and Improvements

Security is a constantly moving target. Lutron uses a dedicated security team to continuously monitor the market for potential threats and, when needed, send out security patches to update installed systems.

Ongoing Support

Lutron has the resources you need to answer questions about security when they arise.

- 1. IT deployment guides
- 2. Guidance from our world class 24/7 technical support organization with IT expertise throughout the product lifecycle

Clear Connect wireless technology

All Lutron wireless products utilize Lutron patented Clear Connect wireless technology which operates in an uncongested radio frequency band. The result is ultra-reliable communication and smooth dimming performance with no flicker or delay. Other devices will not interfere with the Lutron lighting control system.

Clear Connect

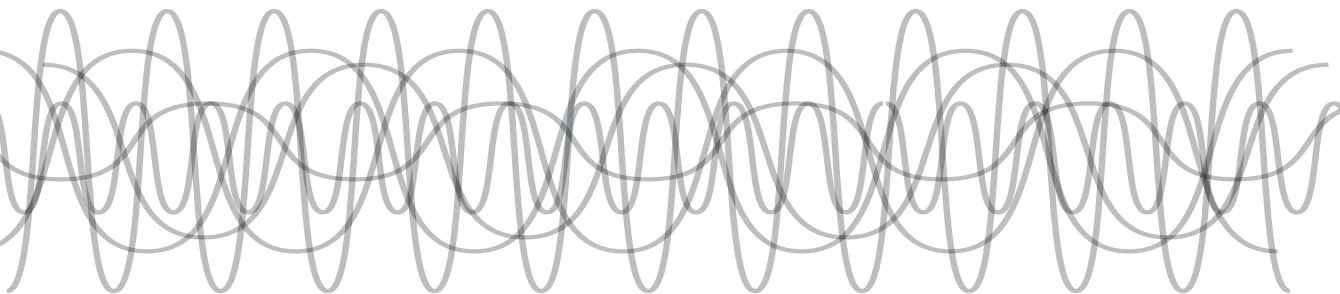


434 MHz: Lutron Clear Connect wireless technology

Lutron devices operate in an uncongested frequency band, providing ultra-reliable operation.



“Other” frequency bands



2.4 GHz: Cordless phones | Bluetooth devices | Wireless security cameras

Other devices operate in congested frequency bands, creating a high potential for wireless interference.



XCT sensing technology

- Lutron’s occupancy sensing won’t leave occupants in the dark and eliminates callbacks
- Lutron sensors provide exceptional prevention of false-ons and false-offs
 - Superior sensitivity—recognizes the difference between fine human motion and background noise



Major Motion

Person walking 3 feet



Minor Motion

Movements like extending our arms



Fine Motion

Small movements like flipping pages of a book



No False-on

Lights stay off when room is unoccupied

Setup the system yourself, or choose the right mix of support services.

Lutron offers a variety of flexible, scalable support options to meet the needs of your project and your budget.



Do it yourself

Vive is designed to make installation and setup easy. Instructions are included with the product, and comprehensive, online help is available 24/7 on **Lutron.com/ViveResources**.

Simple-to-follow videos and product guides are just a click away.



Get a little help

If you’re looking for some extra peace of mind, Lutron Services can be purchased in flexible blocks of time to provide just the right amount of support.

The Services Team can provide training, walk you through setup for a specific project area, answer any other questions you have, or help finish setup by closing punch-list items.

Choose from remote (online or phone-based) setup support, or have a Lutron Service Technician come to your site.



Leave the setup to us

If you prefer, the Lutron Services Team can execute the full system setup.

Both remote and onsite setup services are available. Remote startup is generally a lower cost option and requires less lead time.

Remote setup — a designated member of your team works with an off-site, Lutron-certified remote technician.

Onsite setup — a Lutron-certified service technician will perform the complete system setup at your project site.

If you are not sure what kind of support you need, Lutron can help.

Contact your local Lutron sales representative to discuss your project.



Access to tools and resources is at your fingertips.

Exclusive access and quick answers keep your project moving.



Designer+ for Vive

Lutron Designer+ for Vive is an intuitive, easy-to-use software tool that allows you to design a Lutron Vive lighting control system with visual “drag and drop” layout and connections. It also allows you to generate comprehensive system design documentation, including bills of materials, one-line diagrams, and sequence of operations. For access please contact myLutronsupport@lutron.com.



Vive videos

Get access to Lutron Vive videos 24/7. Step-by-step setup, installation, and programming help whenever you need it. Lutron.com/ViveResources.



Vive forum and FAQs

Have a question? Go to Forums.lutron.com to search Frequently asked Questions, pose a question, or talk to other Vive users in a live forum.



Vive training

Visit Lutron.com/LCIOne — Sign up for free, online training modules with practice exercises that walk you through the Vive system.

Summary of code requirements for lighting control

Vive wireless solutions ensure you can meet new construction and retrofit (lighting alterations¹²) code requirements for ASHRAE 2010, ASHRAE 2013, IECC 2012, IECC 2015, and Title 24-2016¹³.

For specific commercial building code lighting requirements in your state, please visit www.lutron.com/energycodes.



App guides to help you meet codes

Codes can often be complicated and difficult to navigate. We have commercial application guides that include examples of different spaces and corresponding Lutron products for those spaces. Guides show you how you can use Lutron solutions to meet or exceed major energy code requirements.

Available online at www.lutron.com/appguides



Vive wireless specification typicals

Specifying wireless lighting control reduces design time and allows flexibility for changes during the project without the need to redesign. Vive Wireless Specification Typicals allow for quick and easy design of many applications. Simply copy and paste the typicals into drawing packages for complete design, layout, and BOM information.

Available online at www.lutron.com/viveresources



Energy code quick reference guides

Get the lighting and receptacle control requirements along with suggested functionality to meet the latest versions of ASHRAE 90.1, IECC, and Title 24 all on one page.

Available online at www.lutron.com/viveresources



Vive wireless hub

Dimensions

- W: 6.5" (165 mm)
- H: 1.5" (38 mm)
- D: 2.8" (71 mm)



Vive hub power supply

Dimensions

- W: 4.0" (102 mm)
- H: 1.7" (43 mm)
- D: 2.8" (71 mm)

Features and benefits

- Communicates with controls on a floor using Lutron wireless Clear Connect technology (range radius of 71 ft [22 m])
- Distributed system architecture
 - Pico remote controls and sensors communicate directly with the load devices they control and must be located within 30 ft (9 m) of the device with which they are associated
- Supports timeclock events based on both sunrise and sunset or fixed time-of-day
- Integrated multi-color LED provides feedback on what mode the hub is in
- Two contact closure Inputs for integration with devices by others including devices for Title 24 Automatic Demand Response
- Each hub provides an individual dashboard for its coverage area and allows you to link to other hub dashboards from the mobile application

Product options

Vive wireless hub models

Starter (up to 75 devices)

HJS-0-FM	Flush mount
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Standard

HJS-1-FM	Flush mount
HJS-1-SM	Surface mount

Premium (with BACnet)

HJS-2-FM	Flush mount
HJS-2-SM	Surface mount

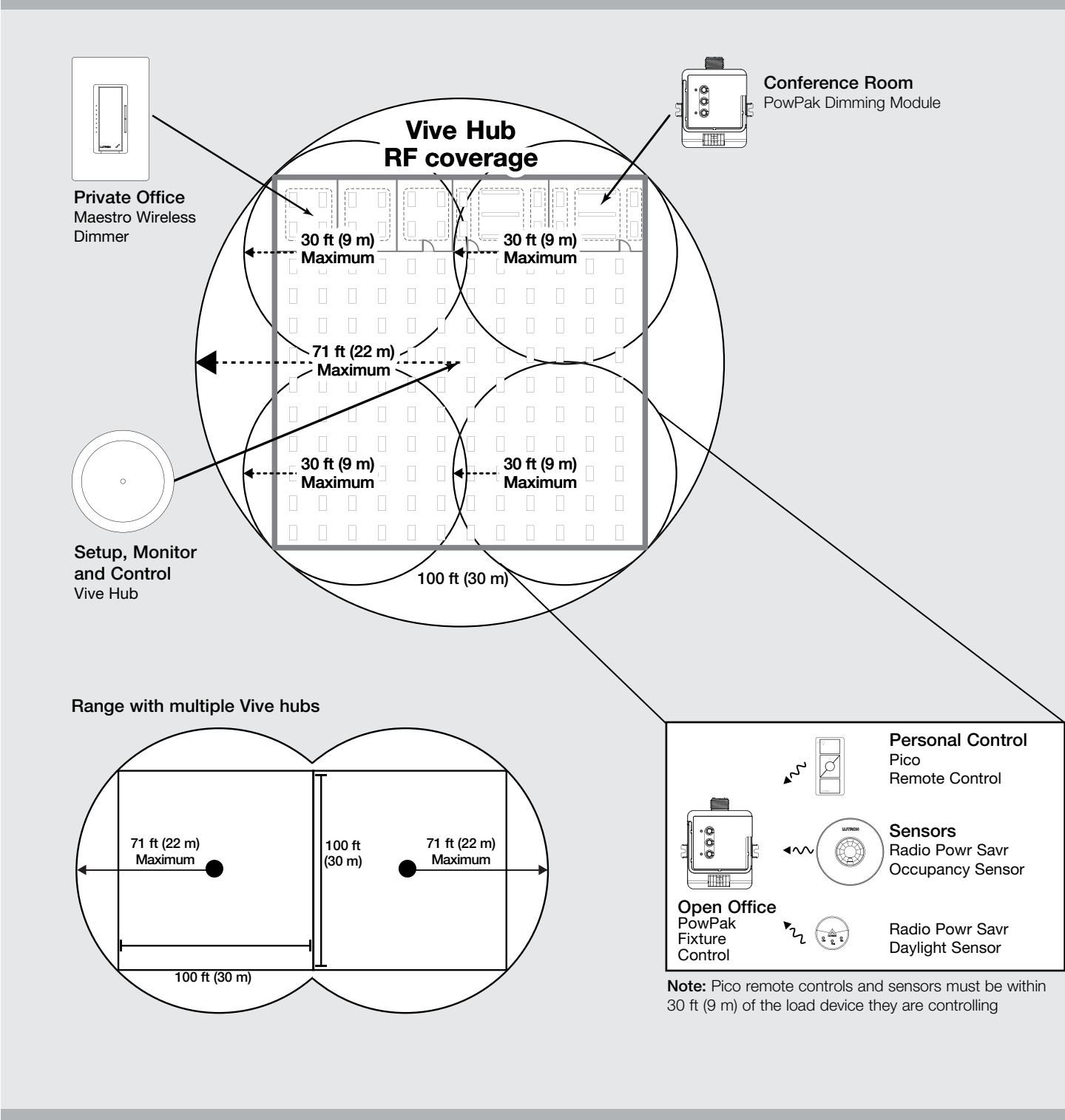
Note: A minimum distance of 10 ft (3 m) between Vive wireless hubs on the same floor is required.

Note: A corporate Wi-Fi network can interfere with the Wi-Fi on the Vive wireless hub. Where a corporate Wi-Fi network exists, it is recommended to do one of the following: 1) Connect to the Vive wireless hub and change the Wi-Fi channel to one that isn't used by the corporate network or 2) Connect the Vive wireless hub to the corporate network using the Ethernet connection on the hub, and disable the hub's Wi-Fi.

Note: Vive wireless hub must be mounted a minimum of 10 ft (3 m) from a Wi-Fi router or access point.

How it works

All wireless devices to be associated to the Vive wireless hub must be within 71 ft (22 m) of the Vive wireless hub and must be on the same floor as the Vive wireless hub.





PowPak relay module

Dimensions

W: 2.89" (48mm)
H: 3.44" (87mm)
D: 1.25" (32mm)

How to design and specify

- **One relay module**
For each controlled lighting zone in the space
- **Control**
Select appropriate model based on the size of the connected load
 - 16A:** 1920 W or 1/2 HP @ 120V or 4432 W or 1 1/2 HP @ 277V
 - 5A:** 600 W or 1/6 HP @ 120V or 1385 W or 1/3 HP @ 277V
- **Contact closure output**
For sending occupancy information to third-party equipment such as HVAC systems
- **Input** 120/277V

Product options

16A models

RMJS-16R-DV-B

RMJS-16RCCO1-DV-B One contact closure output

5A models

RMJS-5R-DV-B

RMJS-5RCCO1-DV-B One contact closure output



PowPak dimming module with 0-10V control

Dimensions

W: 2.89" (48mm)
H: 3.44" (87mm)
D: 1.25" (32mm)

How to design and specify

- **One dimming module with 0-10V control**
For each controlled 0-10V lighting zone in the space
- **Control**
 - 8A:** 0-10V controlled fixtures and switches compatible with third-party 0-10V fluorescent ballasts, LED drivers, and fixtures
- **Input** 120/277V
- **0-10V Link:** Communicates with up to 60 mA of fixtures

Product options

8A models with 0-10V control

RMJS-8T-DV-B



PowPak contact closure output module

Dimensions

W: 2.89" (48 mm)
H: 3.44" (87 mm)
D: 1.25" (32 mm)

How to design and specify

- **One contact closure output module**
For each additional contact closure output you require

Product options

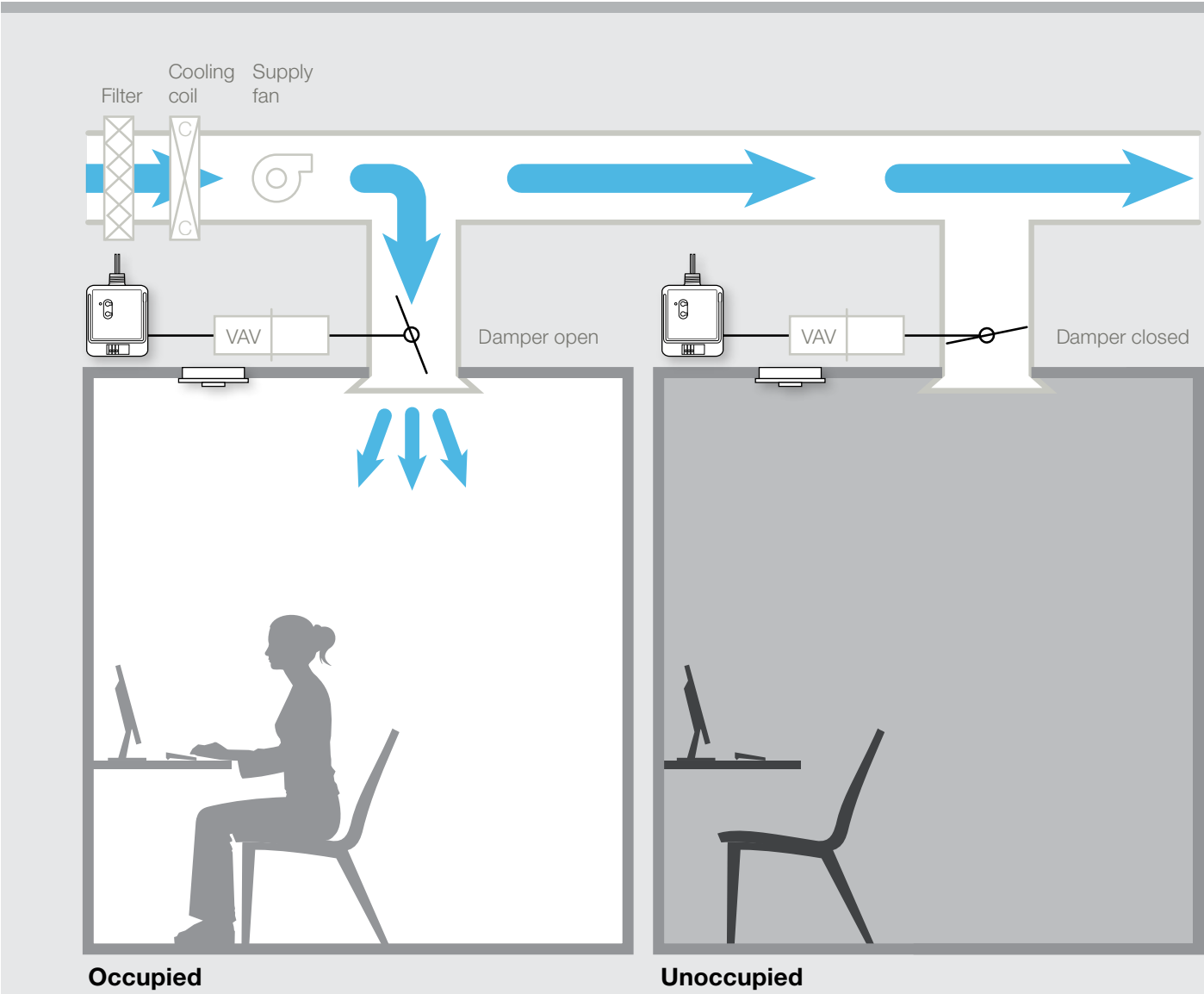
Standard

RMJS-CCO1-24-B Contact closure output

Note: If using a relay module with the contact closure output, you do not need to add a contact closure output module unless a second contact closure output is needed

How it works

In response to information received from a Radio Powr Savr occupancy/vacancy sensor, the PowPak contact closure output module communicates room occupancy to the VAV terminal unit. By not heating or cooling an unoccupied room, the electricity consumed by the HVAC system can be reduced.



Radio Powr Savr occupancy/vacancy sensor (ceiling mount)



PowPak contact closure output module

PowPaks



PowPak relay module

Dimensions

W: 2.89" (48 mm)
H: 3.44" (87 mm)
D: 1.25" (32 mm)

How to design and specify

- **One relay module**
For each 20A receptacle circuit you want to control
- **Input** 120/277V

Product options

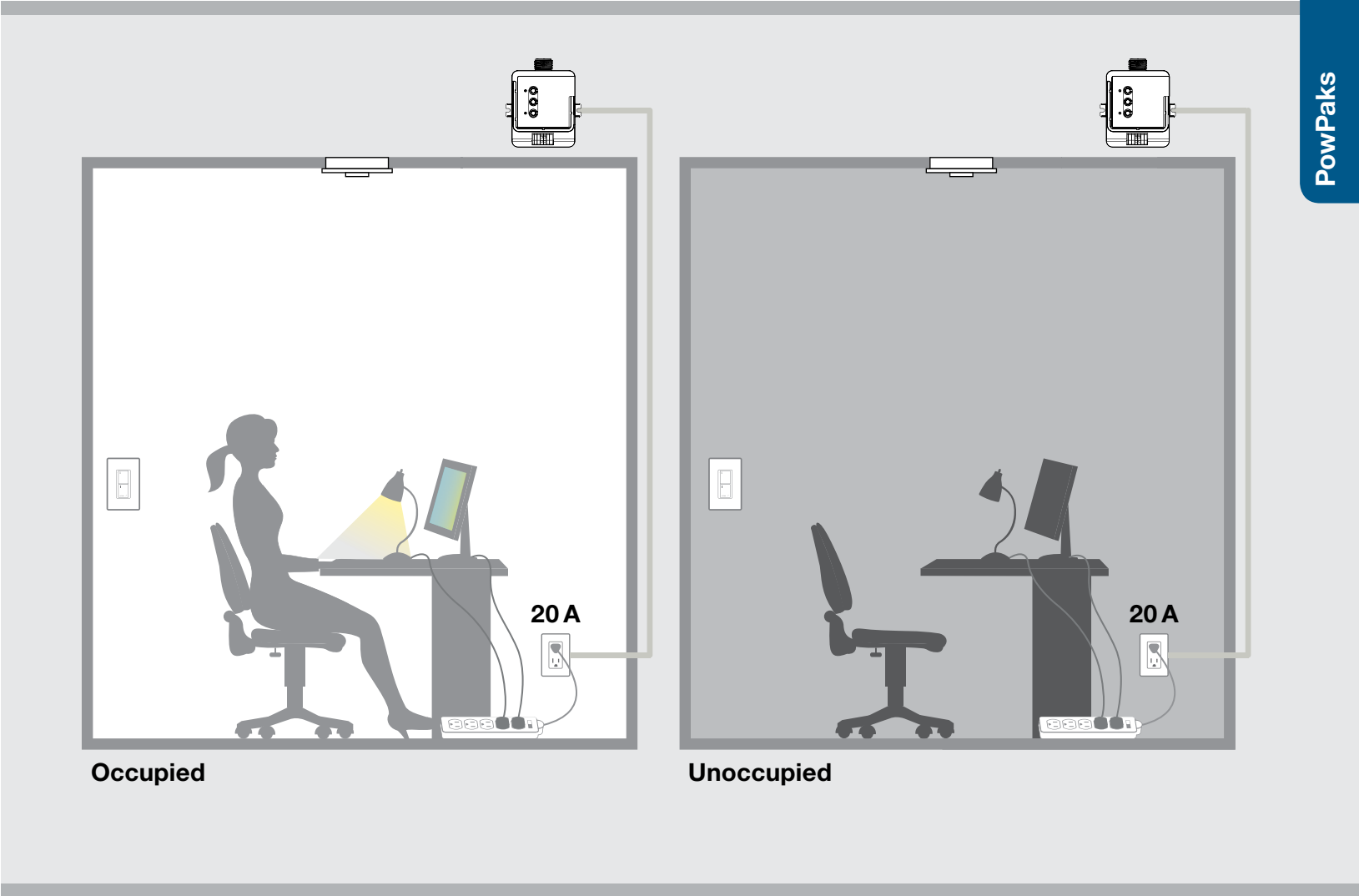
20 A models

RMJS-20R-DV-B	General purpose switch 120-277 V receptacles
RMJS-20RCCO1-DV-B	General purpose switch 20 A, 120-277 V receptacles with one contact closure output

How it works

Plug loads, such as task lighting, computer monitors, and printers, account for greater than 5% of commercial electricity usage³. Many energy codes now require control of receptacles for compliance.

The occupancy/vacancy sensor wirelessly communicates room occupancy to the relay module.
Based on the occupancy status received, the relay module switches the power to the receptacles on or off, reducing the amount of energy consumed.



Radio Powr Savr
occupancy/vacancy sensor
(ceiling mount)



Pico control
with wallplate



PowPak 20 A relay
receptacle module



RF receptacle with top controlled

Dimensions

W: 2.94" (75mm)
H: 4.69" (119mm)
D: 1.4" (36mm)

How to design and specify

- **One wireless receptacle**
For each receptacle circuit you want to control

One wireless receptacle can also control standard receptacles wired downstream
- **Input** 120V

Product options

15A models

CAR2S-15-STR - 15 A	Split (half switching; single pole/downstream)
CAR2S-15-DTR - 15 A	Duplex (dual switching; single pole/downstream)

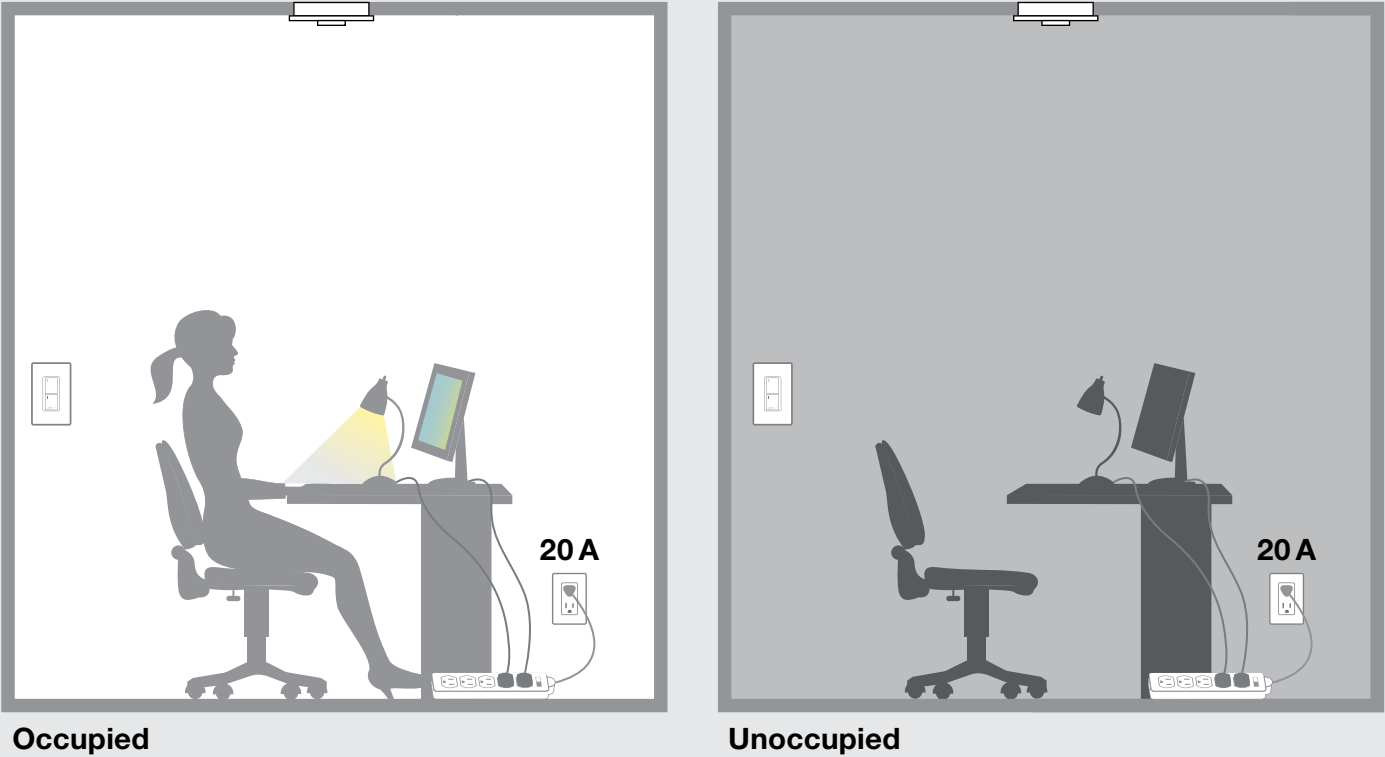
20A models

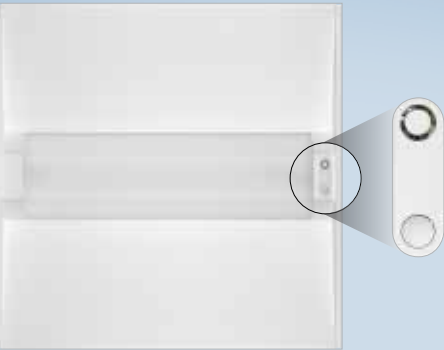
CAR2S-20-STR - 20 A	Split (half switching; single pole/downstream)
CAR2S-20-DTR - 20 A	Duplex (dual switching; single pole/downstream)

How it works

Plug loads, such as task lighting, computer monitors, and printers, account for greater than 5% of commercial electricity usage³. Many energy codes now require control of receptacles for compliance.

The occupancy/vacancy sensor wirelessly communicates room occupancy to the wireless receptacle.
Based on the occupancy status received, the wireless receptacle switches the power on or off, reducing the amount of energy consumed. The wireless receptacle will control normal receptacles downstream.





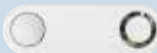
Vive Integral Fixture Control

Dimensions

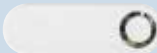
W: .827" (21 mm)
H: 2.477" (62.9mm)

Dimensions with Occupancy/Daylight Sensor

W: .927" (23.5mm)
H: 2.577" (65.4mm)



Clear Connect (RF) + Sensing



Clear Connect (RF) Only

How to design and specify

- **Vive integral fixture control**
For each fixture in the space
- **Digitally controls** up to three drivers/ballasts per fixture
- **Select either** Clear Connect (RF) only or Clear Connect (RF) & XCT Sensing

Product options

Wireless individual in-fixture control

DFCSJ-OEM-RF	Clear Connect (RF) only
DFCSJ-OEM-OCC	Clear Connect (RF) and Occupancy/Daylight Sensing

Contact your local fixture representative and ask for a Vive-enabled fixture or visit lutron.com/findafixture

Note: Wireless sensors and controls must be located within 60 ft (18 m) line of sight, or 30 ft (9 m) through walls of each other.



Vive Wireless fixture controller

Sensor Dimensions

W: 2.89" (48 mm)
H: 3.44" (87 mm)
D: 1.25" (32 mm)

How it works

Install the fixture control directly to a fixture or on a junction box nearest to the fixture. Install the sensor on the ceiling near the fixture to optimize coverage in the desired area.

Note: Avoid mounting the fixture sensor in direct sunlight or in the light which is cast from the fixture.

How to design and specify

- **One PowPak Wireless Fixture Control**
For each fixture in the space
- **Controls** 1A of lead or up to three drivers/ballasts/per fixture
- **Select either** Area sensing or individual fixture sensing
- **PowPak fixture sensor** Combined occupancy/daylight sensor

Product options

0-10V control models

FCJS-010	
FCJS-010-BULK8	8-pack

EcoSystem control models

FCJS-ECO	
FCJS-ECO-BULK8	8-pack

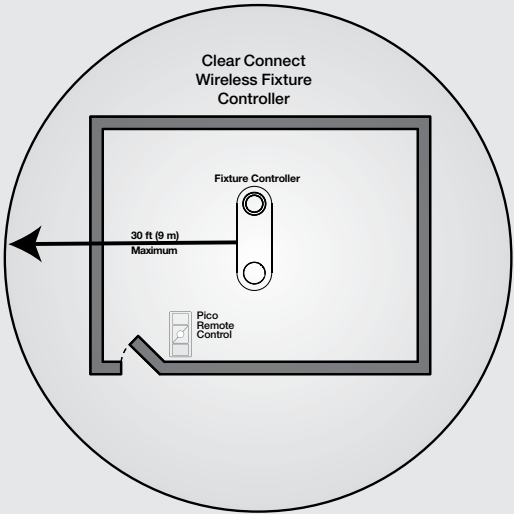
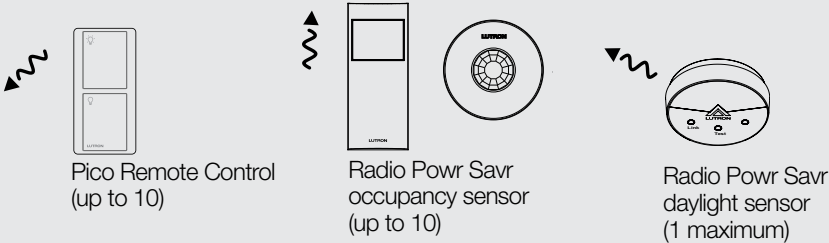
Sensor models

FC-SENSOR	Occupancy/Daylight sensor
FC-VSENSOR	Vacancy/Daylight sensor

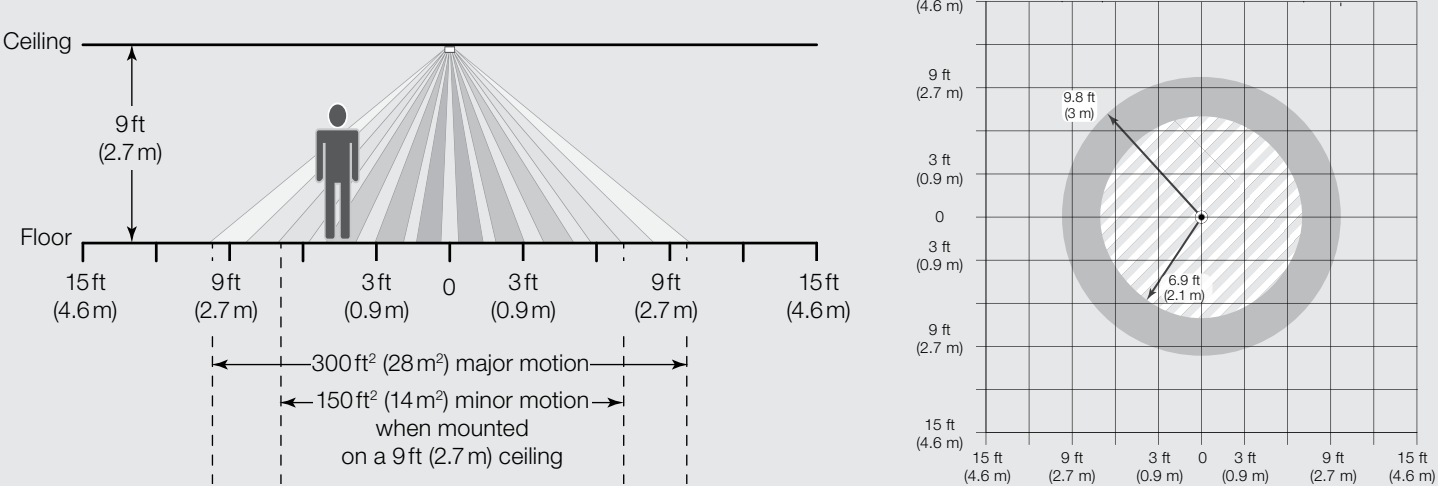
Fixture sensor coverage diagrams

Applies to both products

Clear Connect (RF)



XCT Occupancy/Vacancy sensing





PowPak UL 924 emergency lighting modules

Dimensions

- W: 2.89" (48mm)
- H: 3.44" (87mm)
- D: 1.25" (32mm)

UL 924 listed

How to design and specify

- One UL 924 PowPak module per lighting zone or fixture, depending on model
- Relay module control:**
 - 16A: 1920W or 1/2 HP @ 120V
 - 4432W or 1/2 HP @ 277
- 0-10V module control:**
 - 8A: 0-10V controlled fixtures and switches compatible with third-party 0-10V fluorescent ballasts, LED drivers, and fixtures
 - 0-10V link: Communicates with up to 60mA of fixtures
- Fixture control:**
 - 1 A of load or up to 3 drivers and ballasts
- Input (all models)** 120/277 V

Product options

Relay	RMJS-16R-DV-B-EM
0-10V	RMJS-8T-DV-B-EM
Fixtures	FCJS-010-EM FJJS-ECO-EM

How it works

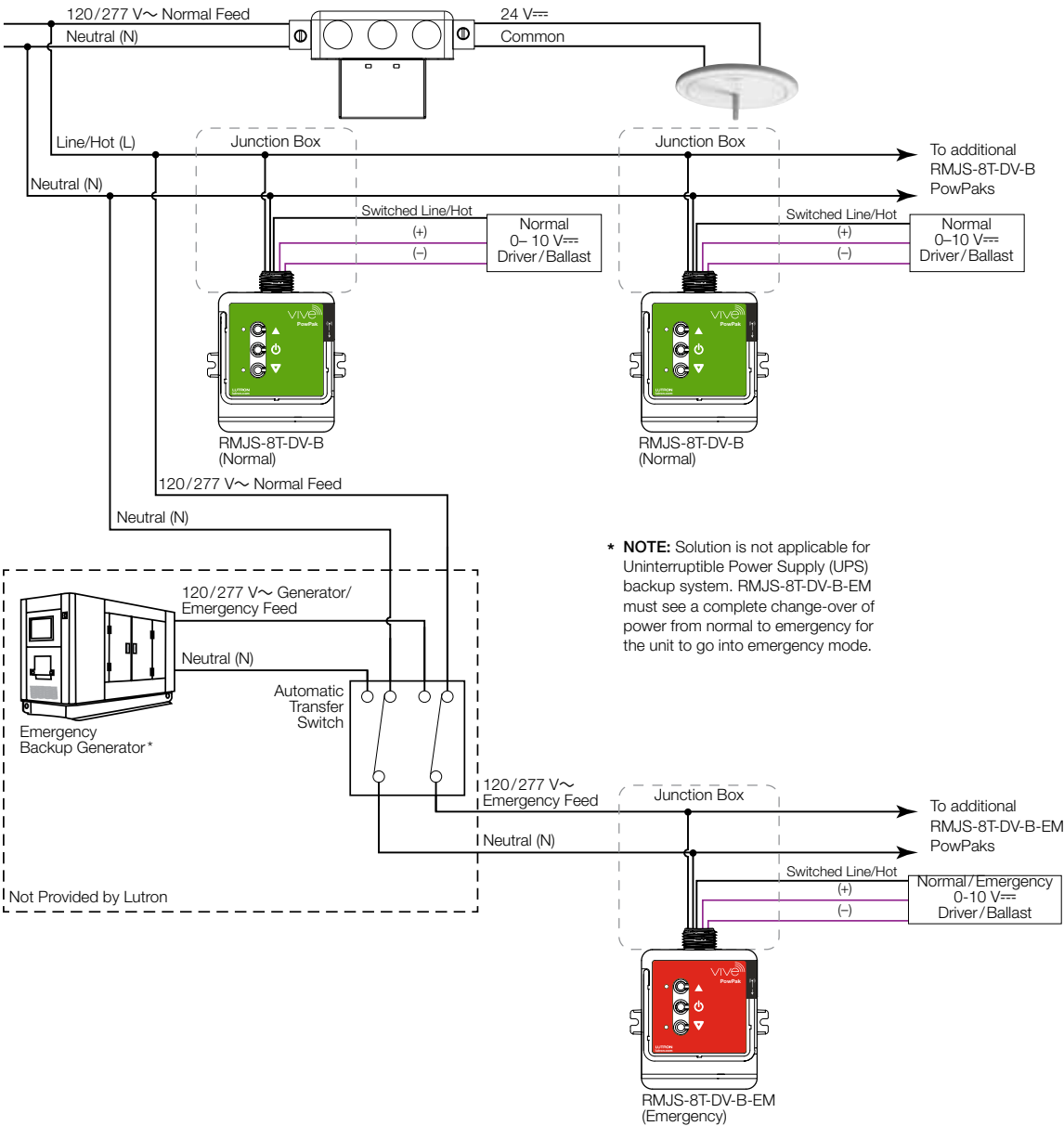
During normal power conditions, the UL 924 rated PowPak modules can dim loads and respond to local button presses, Pico wireless controls, and occupancy/daylight sensors.

If utility power fails and the emergency PowPak loses power for greater than 250 msec, the emergency generator back-up source activates and the automatic transfer switch senses loss of normal power and switches to emergency power.

The emergency PowPak regains power and automatically goes into emergency mode (full output, relay closed and 0 –10 V- signal goes to 10.0 V-) for 90 minutes. All local buttons, Pico wireless controls and occupancy/daylight sensors will not respond.

When normal power is restored to the Vive hub and emergency PowPak, the emergency PowPak will return to the previous light level within 2 minutes of normal power being restored. It will again accept local button control, input from Pico wireless controls, and occupancy/daylight sensors

System Wiring Diagram (Vive Hub with Emergency PowPak)





Maestro wireless switches

Dimensions

W: 2.94" (75mm)
H: 4.69" (119mm)
D: 1.44" (38mm)

How to design and specify

- Select one switch per lighting zone
- Select appropriate model based on the size of the connected load
 - **6A:** 600 W lighting @ 120 V
 - **8A:** 960 W lighting @ 120 V or 2216 W @ 277 V
- If existing switch does not have a neutral, choose the model available for 120/277 V with no neutral required
- Select from up to 27 colors to complement the décor*
- Add an additional Pico remote for rooms with multiple switches for a single zone

Product options

Dual Voltage No Neutral switches

MRF2S-8S-DV-XX	8 A lighting, 1/10 HP fan @ 120 V only, 120-277 V, no neutral
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120 V Neutral required switches

MRF2S-6ANS-XX	6 A lighting, 1/10 HP fan, 120 V only
MRF2-8ANS-120-XX	8 A lighting, 1/4 HP fan, 120 V only



Maestro wireless dimmers

Dimensions

W: 2.94" (75mm)
H: 4.69" (119mm)
D: 1.44" (38mm)

How to design and specify

- Select one wireless dimmer per lighting zone
- Select appropriate model based on the size and type of existing load
- Most models do not require a neutral
- Select from up to 27 colors to complement the décor*
- Add an accessory dimmer or a Pico wireless remote for rooms with multiple switches for a single zone

Product options

Maestro Wireless dimmers

MRF2S-6CL-XX	150 W dimmable CFL/LED, 600 W incandescent/halogen, 600 VA MLV, 120 V, no neutral
MRF2S-6ELV-XX	600 W ELV, 120 V
MRF2S-6ND-120-XX	600 W/VA incandescent/halogen/MLV, 120 V
MA-R-XX	Accessory dimmer for multi-location lighting controls, 120 V

* (XX in the model number represents color/finish code; use WH for White; please visit www.lutron.com for other color choices.)



Pico wireless remotes

3-button with raise/lower 3-button 3-button nightlight with raise/lower



2-button with raise/lower 2-button 2-button nightlight

Dimensions

W: 1.28" (33mm)
H: 2.60" (66mm)
D: 0.33" (8mm)

How to design and specify

- Select one 2-button Pico wireless remote to add a location with ON/OFF control
 - Select one 3-button Pico wireless remote to add a location with ON/OFF control and one preset
 - Select one 2-button with raise/lower Pico wireless remote to add a location with ON/OFF and BRIGHTEN/DIM control
 - Select one 3-button with raise/lower Pico wireless remote to add a location with ON/OFF, BRIGHTEN/DIM control and one preset
 - Select whether a nightlight is needed (2-button and 3-button with raise/lower only)
- Note:** Spaces with a PowPak relay or dimming module will not have a local control in the room unless a Pico is added

Product options

2-button remotes

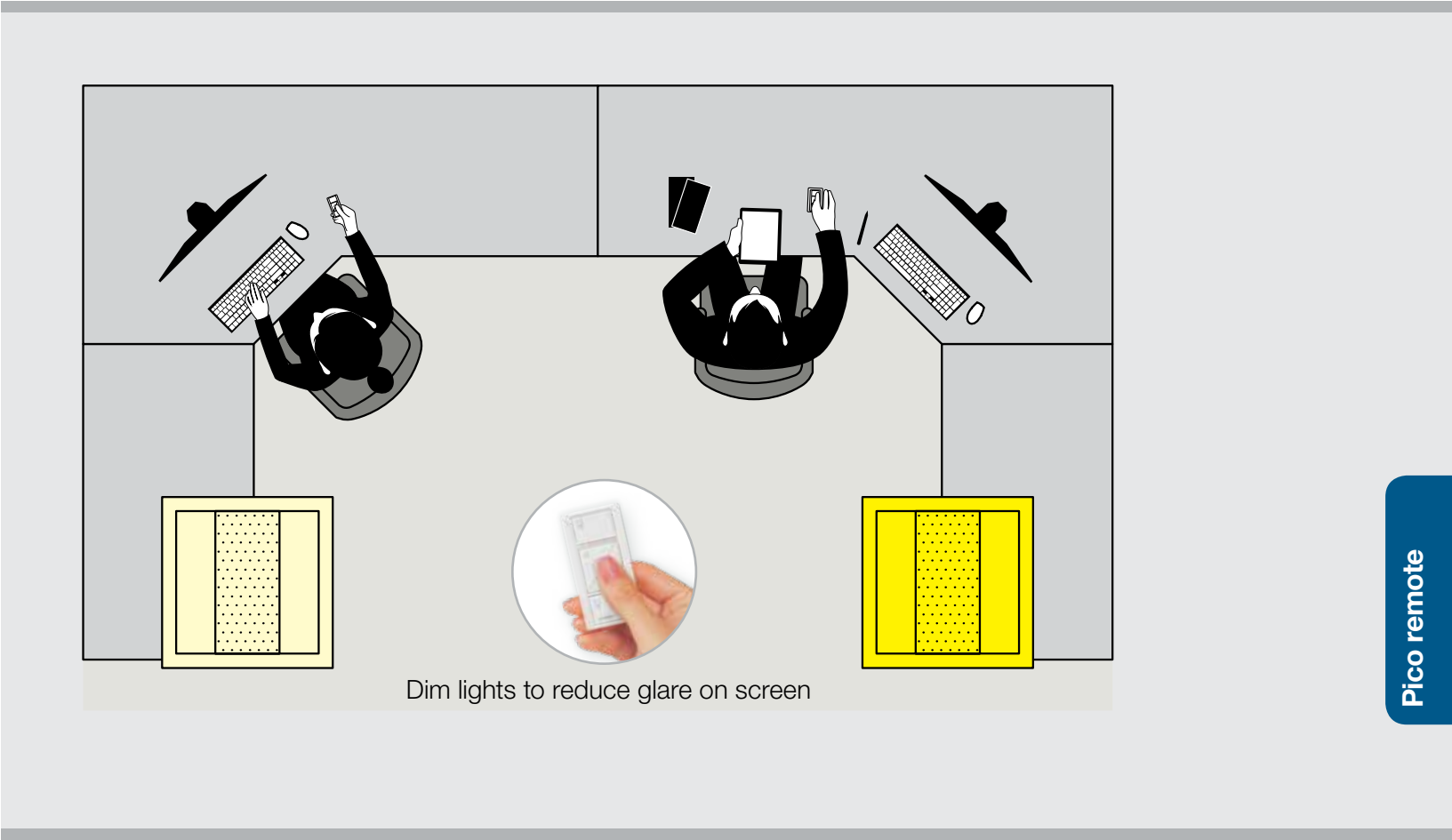
PJ2-2BRL-GXX-L01	2-button with raise/lower wireless remote
PJ2-2B-GXX-L01	2-button wireless remote
PJN-2B-GXX-L01	Nightlight 2-button wireless remote

3-button remotes

PJ2-3BRL-GXX-L01	3-button with raise/lower wireless remote
PJ2-3B-GXX-L01	3-button wireless remote
PJN-3BRL-GXX-L01	Nightlight 3-button with raise/lower wireless remote

How it works

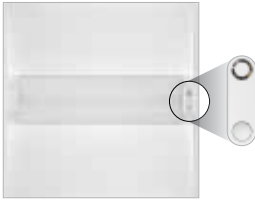
- No wires—put it where it's most accessible
- Pedestal mount for tabletop use
- Surface mount anywhere with Claro wallplate
- 10-year battery life



Pico wall mounted (in a wallplate) — Add a new point of control anywhere with absolutely no wires



Raise lights for reading visibility



Individual fixture control

Pico remote



Pico wireless remotes

- 4-button
2-group
control
- 4-button
zone
control
- 4-button
scene
control

Dimensions

- W: 1.28" (33mm)
- H: 2.60" (66mm)
- D: 0.33" (8mm)

How to design and specify

- The Pico wireless remote is a flexible and easy-to-use device that allows the user to control Lutron wireless load-control devices from anywhere in the space. This battery-operated control requires no external power or communication wiring.

Product options

4-button remotes

PJ2-4B-GWH-L21P	2-group control
PJ2-4B-GWH-L01	Zone control
PJ2-4B-GWH-L31	Scene control

- Custom-engraved models for Zone control keypads (-L01, -S01) and Scene control keypads (-L31, -S31) are available but require a different set of button marking codes when ordering

Note: 2-Group (-L21, -S21, -LS21) and 4-Group Toggle (-L41) controls are not offered with the custom engraving option).

Button Marking Codes	Standard Engraving	Custom Engraving
Zone Control		
Lights	-L01	-EL1
Shades	-S01	-ES1
Scene Control		
Lights	-L31	-EL2
Shades	-S31	-ES2



Tabletop accessories



Wall-mount accessories

Pico wallplate adapter and Claro wallplate

Dimensions

- W: 2.94" (75mm)
- H: 4.69" (119mm)
- D: 1.44" (38mm)

How to design and specify

- Select one Pico pedestal for each tabletop location based on the number of Pico remotes at each location

Product options

Tabletop accessories

L-PED1-WH	pedestal for one Pico remote
L-PED2-WH	pedestal for two Pico remotes
L-PED3-WH	pedestal for three Pico remotes
L-PED4-WH	pedestal for four Pico remotes

How to design and specify

- Select one Pico wallbox adapter for each Pico that you would like wall mounted with a Claro-style wallplate
- Select one Claro wallplate (up to 4-gang) for all Pico and Maestro Wireless wall-mounted control locations where Claro style is desired

Product options

Wall-mount accessories

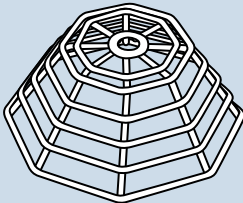
PICO-WBX-ADAPT	Pico wallbox adapter
CW-1-WH	Claro 1-gang wallplate
CW-2-WH	Claro 2-gang wallplate
CW-3-WH	Claro 3-gang wallplate
CW-4-WH	Claro 4-gang wallplate



Wireless occupancy/vacancy sensors

Dimensions

W: 3.57" (91 mm)
H: 3.57" (91 mm)
D: 1.13" (29 mm)



Wire cage guard

Dimensions

W: 7.0" (178 mm)
D: 3.25" (83 mm)

How to design and specify

- A single occupancy sensor can communicate to all control devices in the room
- Use in small rooms or areas with medium to high partitions
- For 8 ft ceilings: 484 ft²
- For 12 ft ceilings: 676 ft²

Product options

Ceiling-mount sensors

LRF2-OCR2B-P-WH	Occupancy/vacancy
LRF2-VCR2B-P-WH	Vacancy only

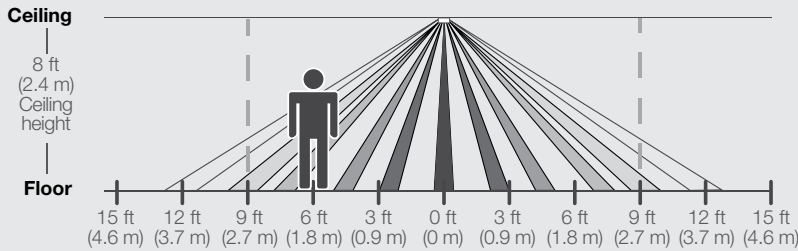
Accessories

L-CMDPIRKIT	Ceiling-mount sensor lens masking kit
L-CRMK-WH	Ceiling-mount sensor recess-mounting bracket
L-WIRECAGE-C	Wire guard for ceiling-mount sensor

Sensor coverage diagrams

Ceiling mount, 360°

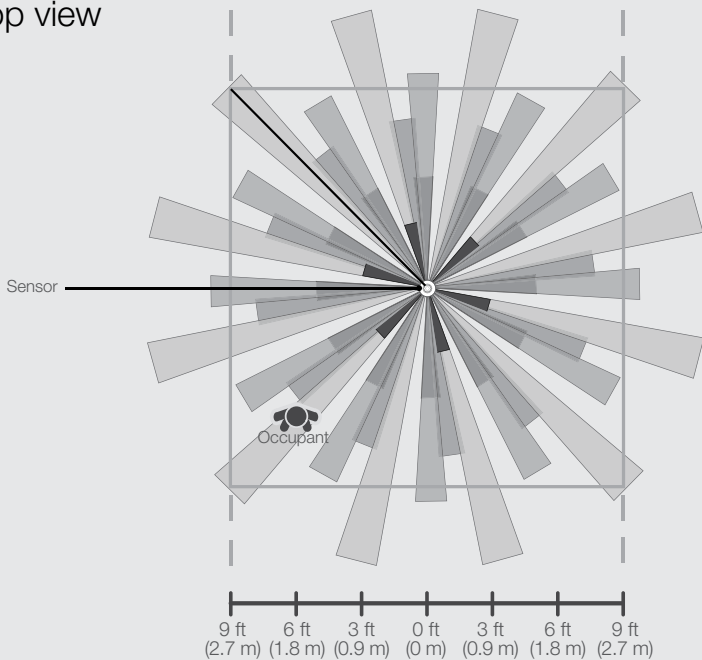
Floor view



Coverage varies by ceiling height

Key:
Minor motion
Major motion

Top view



Ceiling-mount sensor coverage chart (for sensor mounted in center of room)

Ceiling height	Maximum room dimensions for complete floor coverage		Radius of coverage at floor
8ft (2.4m)	18 x 18ft (5.5 x 5.5m)	324 ft ² (30.2 m ²)	13ft (4.0m)
9ft (2.7m)	20 x 20ft (6.1 x 6.1m)	400 ft ² (37.2 m ²)	14.5ft (4.4m)
10ft (3.0m)	22 x 22ft (6.7 x 6.7m)	484 ft ² (44.9 m ²)	16ft (4.9m)
12ft (3.7m)**	26 x 26ft (7.9 x 7.9m)	676 ft ² (62.4 m ²)	19ft (5.8m)

* Sensor mounting shown at 7 ft (2.1 m). Mounting height should be between 6 and 8 ft (1.6 and 2.4 m).

** 12 ft (3.7 m) is the maximum mounting height allowed.



Radio Powr Savr
Wireless sensors

Dimensions

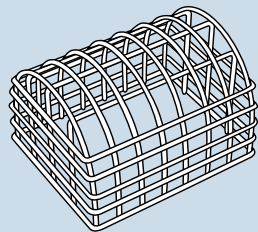
W: 1.8" (46mm)
H: 4.35" (110mm)
D: 1.35" (34mm)



Flexible armature mounting kit

Dimensions

W: 3.62" (92mm)
H: 2.18" (55mm)



Wire cage guard

Dimensions

W: 7.0" (178mm)
H: 5.75" (146mm)
D: 4.5" (114mm)

How to design and specify

- A single occupancy sensor can communicate to all control devices in the room

Product options

Wall-mount sensors

- Use in large open rooms with few tall obstructions
- Coverage: 3,000 ft²

LRF2-OWLB-P-WH	Occupancy/vacancy
LRF2-VWLB-P-WH	Vacancy only

Corner-mount sensors

- Use in medium to large open rooms with few tall obstructions
- Coverage: 2,500 ft²

LRF2-OKLB-P-WH	Occupancy/vacancy
LRF2-VKLB-P-WH	Vacancy only

Hallway sensors

- For a 6 ft wide hallway: 50 ft coverage
- For a 10 ft wide hallway: 150 ft coverage

LRF2-OHLB-P-WH	Occupancy/vacancy
LRF2-VHLB-P-WH	Vacancy only

Accessories

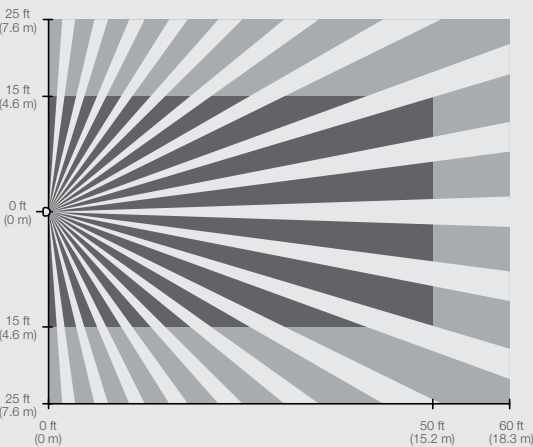
LRF-ARM-WH	Flexible armature mounting kit for Radio Powr Savr wall, hall, corner sensors
L-WIRECAGE-C	Wire guard for ceiling-mount sensor
L-WIRECAGE-W	Wire guard for in-wall sensor

Sensor coverage diagrams

Wall mount*, 180°

1,500 ft²—minor motion
3,000 ft²—major motion

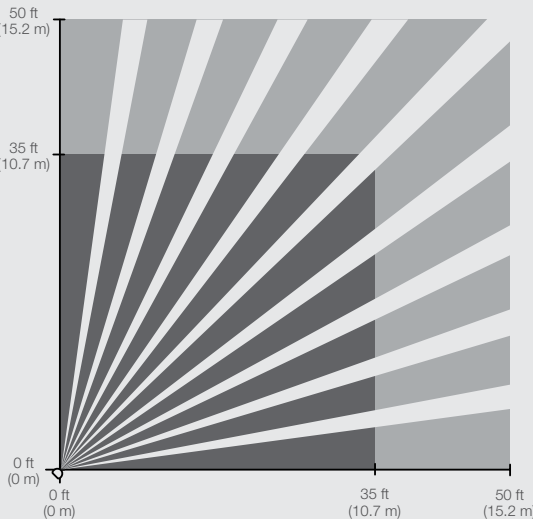
Top view



Corner mount*, 90°

1,225 ft²—minor motion
2,500 ft²—major motion

Top view



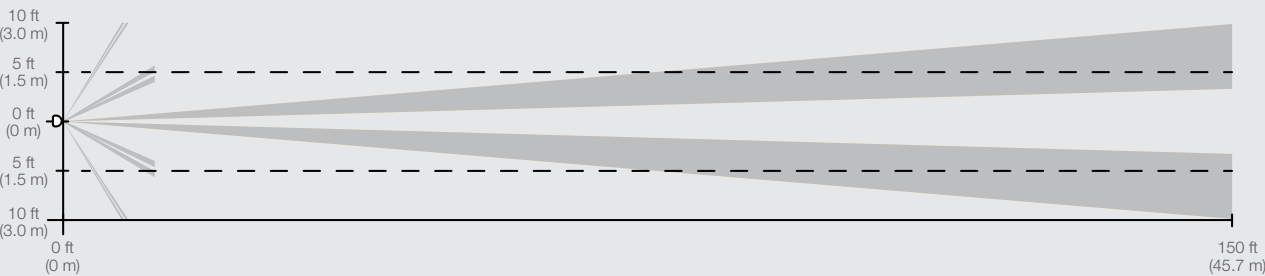
Key:

- Minor motion
- Major motion

Hallway*, long narrow field of view

Coverage varies by hallway width and length

Top view



Hallway sensor maximum recommended length chart
(sensor centered within hallway)

Width of hallway	Length of hallway
6 ft (1.6 m) or less	50 ft (15.2 m)
8 ft (2.4 m)	100 ft (30.5 m)
10 ft (3.0 m) or more	150 ft (45.7 m)

* Sensor mounting shown at 7 ft (2.1 m). Mounting height should be between 6 and 8 ft (1.6 and 2.4 m).
** 12 ft (3.7 m) is the maximum mounting height allowed.



Wireless daylight sensors

Dimensions

W: 1.6" (41 mm)
H: 1.6" (41 mm)
D: 0.7" (17 mm)

How to design and specify

- A single daylight sensor is capable of controlling:
 - All Maestro switching and dimming zones
 - All PowPak switching zones
 - All PowPak dimming modules with 0-10 V control

Product options

Daylight sensor

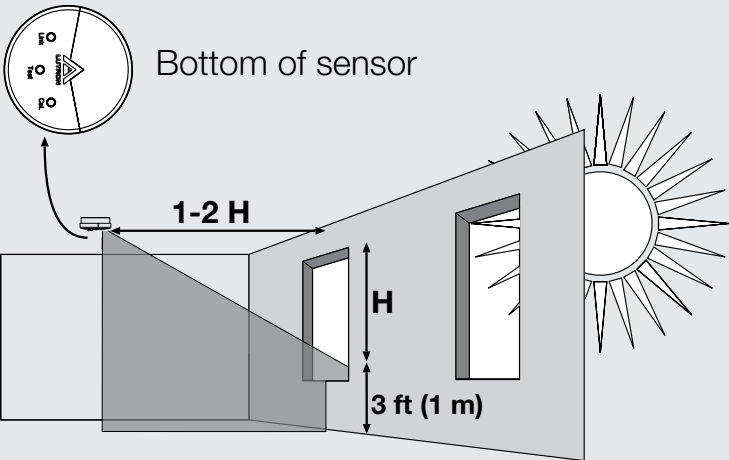
LRF2-DCRB-WH	Daylight sensor
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* Sensor mounting shown at 7 ft (2.1 m). Mounting height should be between 6 and 8 ft (1.6 and 2.4 m).
** 12 ft (3.7 m) is the maximum mounting height allowed.

Sensor coverage diagrams

Location for average size areas

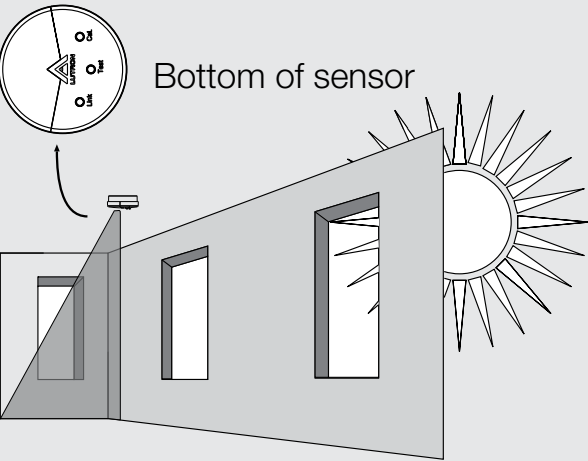
Arrow points towards the area viewed by the sensor (towards windows).



H = Effective Window Height

Location for narrow areas (corridors, private offices)

Arrow points towards the area viewed by the sensor (away from window).





Setup support services

- 4- & 8-Hour onsite blocks
- 4-Hour remote blocks
- Additional setup support services

Available setup support services

Blocks of setup support time

- Lutron Services Representative — either onsite or remotely — supports the installation team in setting up the system
- Utilize the technician’s time in the way that best suits your needs: training, punch list items, or complete programming independently
- Mix and match remote and onsite blocks of time and use them when you need them during the construction timeline
- Choose the amount of time you need

Product options

Blocks of setup support time

LSC-OS-PROG8-SP	8 hours of onsite setup support
LSC-OS-PROG4-SP	4 hours of onsite setup support
LSC-RMT-PROG4-SP	4 hours of remote setup support

Additional setup support services

available with blocks and startup

LSC-PREWIRE	Prewire visit
LSC-TRAINING	Customer-site solution training
LSC-AF-VISIT	Onsite scene and level tuning
LSC-WALK	Onsite performance— verification walk-through



Full-scope startup

- Onsite
- Remote

Available startup services

Onsite full-scope startup

- Lutron Service Representative onsite to ensure proper system startup and configuration
- Train facilities staff to best utilize and maintain the lighting control assets
- Reduce risk and keep your Installation team small by having us do the setup for you.
- Includes a Commercial System Limited Warranty
- Onsite startup enhancements available

Remote full-scope startup

- Dedicated Lutron Remote Technician works with your installation team to ensure proper system startup and configuration
- Introduce end user facilities staff to system components and resources available
- Less lead time to schedule than onsite startup
- Lower cost than onsite startup
- Commercial system limited warranty available

Product options

Setup service models

Full scope startup

LSC-OS-SU-VIVE	Onsite full-scope startup
LSC-RMT-SU-VIVE	Remote full-scope startup

Startup enhancements (Available with onsite full-scope startup)

LSC-AH-SU	Startup performed at night or weekends (weekend work available in certain locations)
LSC-SENS-LT	Sensor layout & tuning
LSC-SPV-DOC	System performance— verification documentation
LSC-SPV-DOC-T24	Title 24 acceptance test visit



Operational services

- Solution training
- System optimization
- Onsite reconfiguration
- Remote reconfiguration

Available Operational Services

- Support the facilities team to maximize system potential
- Reprogram the system as space needs change over time
- Support retro-commissioning requirements
- Pre-purchase with the system to capture costs in capital budget

Product options

Operational service models

Operational services	
LSC-TRAINING	Customer-site solution training
LSC-SYSOPT	System optimization service
LSC-OS-PROG8-EN	8 hours of onsite reconfiguration support
LSC-OS-PROG4-EN	4 hours of onsite reconfiguration support
LSC-RMT-PROG4-EN	4 hours of remote reconfiguration support

Remote and onsite services are also available for purchase after the system is in operation at hourly, half-day and full-day rates; contact Lutron at lscwarranty@lutron.com for more information.

Commercial System Limited Warranty

The commercial system limited warranty offers 5 years of parts coverage, 2 years of first-available onsite/remote response time for system issues, and 24/7 technical support. *Warranty included with onsite full-scope startup & available with remote full-scope startup*

Product options

Vive Limited Warranty

LSC-B2	Commercial System 2-Year Limited
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Technology Support Plans (TSPs)

All Lutron Technology Support Plans provide 100% parts and diagnostic labor coverage for up to 10 years. Optional response-time guarantees and preventive maintenance visits enable the coverage to be customized to meet the facility's needs. TSPs are available for any Vive system; a warranty audit visit will be included with the purchase of a TSP when full-scope startup is not purchased.

Product options

Vive Technology Support Plans

LSC-SILV-IW	Silver Level Technology Support Plan
LSC-GOLD-IW	Gold Level Technology Support Plan
LSC-PLAT-IW	Platinum Level Technology Support Plan
LSC-WARR-AUD	Warranty Audit Visit

Note: For detailed warranty and technology support plan descriptions see lutron.com/services

Vive Warranty information

Vive wireless solutions are all covered by a 5-year parts warranty with registration of the product. Additional technology support options are available to meet your project needs. See the options below.

Support Options	Commercial System Limited Warranty	Silver (TSP)	Gold (TSP)	Platinum (TSP)
Duration up to 10 years of coverage		•	•	•
100% Replacement Parts	• (5 yrs)	•	•	•
Diagnostic Labor — First Available Response	• (2 yrs)	•		
Diagnostic Labor — 72-Hour Response			•	
Diagnostic Labor — 24-Hour Response				•
Annual Preventive Maintenance Visit			•	•



Model Number	Description	List Price (US)
Vive wireless hub		
HJS-0-FM	Starter Vive wireless hub, flush mount	1,700.00
HJS-1-FM	Standard Vive wireless hub, flush mount	Contact Lutron sales for a quote
HJS-1-SM	Standard Vive wireless hub, surface mount	
HJS-2-FM	Premium Vive wireless hub, flush mount	
HJS-2-SM	Premium Vive wireless hub, surface mount	

Vive Vue Dashboard Software		
VIVE-VUE	Vive Vue Software Dashboard License	Contact Lutron sales for a quote



PowPak relay module		
RMJS-5R-DV-B	5 A relay	109.00
RMJS-5RCCO1-DV-B	5 A relay with one contact closure output	124.00
RMJS-16R-DV-B	16 A relay	129.00
RMJS-16RCCO1-DV-B	16 A relay with one contact closure output	144.00



UL 924 rated emergency wireless controls		
RMJS-16R-DV-B-EM	Emergency rated 16 A relay	179.00
RMJS-8T-DV-B-EM	Emergency rated 8 A, 0-10V dimmer	200.00
FCJS-ECO-EM	Emergency rated EcoSystem control module	128.00
FCJS-010-EM	Emergency rated 0-10V control module	128.00



PowPak dimming module with 0-10 V control		
RMJS-8T-DV-B	Controls up to 8 A of 0-10V controlled fixtures	150.00

PowPak contact closure output module		
RMJS-CCO1-24-B	one contact closure output	109.00



Model Number	Description	List Price (US)
Wireless Receptacle		
CAR2S-15-STR	15 A Split (half switching; single pole/downstream, 120V	170.00
CAR2S-15-DTR	15 A Duplex (dual switching; single pole/downstream, 120V	170.00
CAR2S-20-STR	20 A Split (half switching; single pole/downstream, 120V	190.00
CAR2S-20-DTR	20 A Duplex (dual switching; single pole/downstream, 120V	190.00



PowPak relay module		
RMJS-20R-DV-B	20 A general purpose switch	139.00
RMJS-20OCC1DV-B	20 A general purpose switch with one contact closure output	154.00



Individual fixture control		
FCJS-010	0-10V Control Module	78.00
FCJS-ECO	EcoSystem Control Module	78.00
FCJS-010-BULK8	0-10V Control Module 8-pack	600.00
FCJS-ECO-BULK8	EcoSystem Control Module 8-pack	600.00
FC-SENSOR	Occupancy/Daylight Sensor	35.00
FC-VSENSOR	Vacancy/Daylight Sensor	35.00
DFCSJ-OEM-RF*	Vive Integral Fixture Control (RF Only)	60.00
DFCSJ-OEM-OCC*	Vive Integral Fixture Control (with Sensing)	70.00

* Contact your local fixture representative and ask for a Vive-enabled fixture or visit lutron.com/findafixture Fixture adders may vary.



Model Number Description List Price (US)

Maestro Wireless switches*

MRF2S-6ANS-XX	6 A lighting, 3 A fan (1/10HP motor), 120V	108.00
MRF2S-8S-DV-XX	8A lighting, 3 A fan (1/10HP motor, 120V only), spec grade	170.00
MRF2S-8ANS-120-XX	8A lighting, 5.8A fan (1/4HP motor), spec grade, 120V	140.00

Maestro Wireless dimmers*

MRF2S-6CL-XX	150W dimmable CFL/LED, 600W incandescent halogen, 600VA MLV, 120V, no neutral	108.00
MRF2S-6ELV-XX	600W ELV, 120V	209.00
MRF2S-6ND-120-XX	600 W/VA incandescent/halogen/MLV, 120 V	150.00

Maestro Wireless/Maestro occupancy sensing control companion devices*

MA-AS-XX	Multi-location companion switch, 120V	35.50
MA-AS-277-XX	Multi-location companion switch, 277V	44.00
MA-R-XX	Multi-location companion dimmer, 120V	28.40
MA-R-277-XX	Multi-location companion dimmer, 277V	45.40

* (XX in the model number represents color/finish code; use WH for White; please visit www.lutron.com for other color choices.) Price indicated for gloss finish products.

Maestro Colors

Gloss Colors

- S White (WH)
- S Ivory (IV)
- S Almond (AL)
- S Light Almond (LA)
- S Gray (GR)
- S Brown (BR)
- S Black (BL)

Satin Colors (Prices vary from Gloss Colors)

- Hot (HT)
- Merlot (MR)
- Plum (PL)
- Turquoise (TQ)
- Sea Glass (SG)
- Midnight (MN)
- Sienna (SI)
- Terracotta (TC)
- Greenbriar (GB)
- Bluestone (BG)
- Taupe (TP)
- Eggshell (ES)
- Biscuit (BI)
- Snow (SW)
- Palladium (PD)
- Mocha Stone (MS)
- Goldstone (GS)
- Desert Stone (DS)
- Stone (ST)
- Limestone (LS)



Model Number Description List Price (US)

Pico wireless remotes*

PJ2-2BRL-GXX-L01	2-button with raise/lower	25.00
PJ2-2B-GXX-L01	2-button	25.00
PJN-2B-GXX-L01	Nightlight 2-button	58.00
PJ2-3BRL-GXX-L01	3-button with raise/lower	21.00
PJ2-3B-GXX-L01	3-button	25.00
PJN-3BRL-GXX-L01	Nightlight 3-button with raise/lower	58.00
PJ2-4B-GXX-L21P	4-button with 2 group control	39.00
PJ2-4B-GXX-L01	4-button with zone control	25.00
PJ2-4B-GXX-L31	4-button with scene control	39.00

* (XX in the model number represents color/finish code; price shown is for white (WH) models only.) Price for other colors varies.

Pico accessories*

PICO-WBX-ADAPT	Pico wireless remote wallbox adapter	8.00
CW-1-XX	Claro 1-gang wallplate	5.00
CW-2-XX	Claro 2-gang wallplate	10.00
CW-3-XX	Claro 3-gang wallplate	15.20
CW-4-XX	Claro 4-gang wallplate	21.00
L-PED1-XX**	Pico wireless remote single pedestal	15.00
L-PED2-XX**	Pico wireless remote double pedestal	30.00
L-PED3-XX**	Pico wireless remote triple pedestal	100.00

* (XX in the model number represents color/finish code; use WH for White; please visit www.lutron.com for other color choices.) Price indicated for gloss finish products.

** (XX in the model number represents color/finish code; use WH for White; please visit www.lutron.com for other color choices.) Price indicated for White finish products.

Pico Colors

Gloss Colors

- White (WH)
- Ivory (IV)
- Light Almond (LA)
- White/Gray (WG)
- Black (BL)



Model Number	Description	List Price (US)
Radio Powr Savr occupancy/vacancy sensors*		
LRF2-OCR2B-P-WH	Ceiling-mount, 360° field-of-view, occupancy/vacancy sensor	85.00
LRF2-OWLB-P-WH	Wall-mount, 180° field-of-view, occupancy/vacancy sensor	85.00
LRF2-OKLB-P-WH	Corner-mount, 90° field-of-view, occupancy/vacancy sensor	85.00
LRF2-OHLB-P-WH	Hallway, occupancy/vacancy sensor	85.00



Occupancy/vacancy sensor accessories		
L-CMDPIRKIT	Sensor lens masking kit for Radio Powr Savr ceiling sensor	11.80
L-CRMK-WH	Recess-mounting bracket for Radio Powr Savr ceiling sensor	17.00
LRF-ARM-WH	Flexible armature mounting kit for Radio Powr Savr wall, hall, corner sensors	59.00
L-WIRECAGE-WBX	Wire guard for in-wall sensor, White	65.00
L-WIRECAGE-C	Wire guard for ceiling-mount sensor, White	65.00
L-WIRECAGE-W	Wire guard for wall-mount and hallway sensors, White	65.00



Radio Powr Savr daylight sensor		
LRF2-DCRB-WH	Ceiling-mount daylight sensor	120.00



Wallplates*		
CW-1-XX	Claro 1-gang wallplate	5.00
CW-2-XX	Claro 2-gang wallplate	10.00
CW-3-XX	Claro 3-gang wallplate	15.20
CW-4-XX	Claro 4-gang wallplate	21.00

* (XX in the model number represents color/finish code; use WH for White; please visit www.lutron.com for other color choices.) Price indicated for gloss finish products.



Model number	Description	List Price (US)
Vive Startup Services		
LSC-OS-SU-VIVE	Onsite full-scope startup	Contact Lutron sales for a quote
LSC-RMT-SU-VIVE	Remote full-scope startup	
LSC-AH-SU	After hours startup	
LSC-SENS-LT	Sensor layout & tuning	
LSC-SPV-DOC	System performance-verification documentation	
LSC-SPV-DOC-T24	Title 24 acceptance test visit	



Vive Setup Support Services		
LSC-OS-PROG8-SP	Onsite programming — 8-hour block	Contact Lutron sales for a quote
LSC-OS-PROG4-SP	Onsite programming — 4-hour block	
LSC-RMT-PROG8-SP	Remote programming — 8-hour block	
LSC-PREWIRE	Prewire visit	
LSC-TRAINING	Customer-site solution training	
LSC-AF-VISIT	Onsite scene and level tuning	
LSC-WALK	Onsite performance-verification walkthrough	



Vive Operational Services		
LSC-TRAINING	Customer-site solution training	Contact Lutron sales for a quote
LSC-SYSOPT	System optimization service	
LSC-OS-PROG8-EN	8 hours of onsite reconfiguration support	
LSC-OS-PROG4-EN	4 hours of onsite reconfiguration support	
LSC-RMT-PROG4-EN	4 hours of remote reconfiguration support	

Vive Limited Warranty and Technology Support Plans		
LSC-B2	Commercial system limited warranty	Contact Lutron sales for a quote
LSC-SILV-IW	Silver level technology support plan	
LSC-GOLD-IW	Gold level technology support plan	
LSC-PLAT-IW	Platinum level technology support plan	
LSC-WARR-AUD	Warranty audit visit	

Other energy saving devices by Lutron

These devices do not integrate with the Vive System



Maestro sensor

Dimensions

W: 2.94" (75 mm)
H: 4.69" (119 mm)
D: 1.44" (38 mm)



Maestro dual-circuit sensor switch

Dimensions

W: 2.94" (75 mm)
H: 4.69" (119 mm)
D: 1.44" (38 mm)

Features and benefits

- **Standalone solutions are not compatible with the Vive hub**
- Lutron XCT technology for superior sensitivity prevents false ons and false offs
- Automatically turns lights off when space is unoccupied
- Easy to install; directly replaces an existing control
- Lutron's Smart Ambient Light Detection learns your preferences over time and adapts accordingly
- Lutron's Adaptive Zero-Cross Switching extends relay lifetime
- 180° sensor field-of-view; must have unobstructed view
- Up to 900 ft² major motion coverage and 400 ft² minor motion coverage
- Adjustable timeout—1, 5, 15, 30 minutes
- Vacancy/partial-on models available to meet CA Title 24 requirements
- Dual-circuit sensors provide bi-level control of two circuits, as required by specific energy codes
- Select from up to 27 colors to complement the décor*

Product options

Maestro Sensor switch†

MS-OPS2-XX	2 A lighting, 120 V PIR occupancy/vacancy; single pole, no neutral
MS-OPS5M-XX	5 A lighting, 120 V PIR occupancy/vacancy; 3 A fan, multi-location/3-way/single pole, no neutral
MS-OPS6M2-DV-XX	6 A lighting, 120-277 V PIR occupancy/vacancy, 3 A fan (120 V only); no neutral
MS-OPS6M2N-DV-XX	6 A lighting, 120-277 V PIR occupancy/vacancy, 3 A fan (120 V only); neutral required

Maestro Dual-circuit sensor switch

MS-OPS6-DDV-XX	6 A lighting per circuit, 120-277 V PIR dual-circuit occupancy/vacancy; 4.4 A fan (120 V only) per circuit; single pole
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* (XX in the model number represents color/finish code; use WH for White; please visit www.lutron.com for other color choices.) See Maestro colors on page 51.

† Vacancy-only models available. Replace the "O" in the model number with a "V".



Maestro dual-technology sensor switch

Dimensions

W: 2.94" (75mm)
H: 4.69" (119mm)
D: 1.44" (38mm)



Maestro dual-technology, dual-circuit sensor switch

Dimensions

W: 2.94" (75mm)
H: 4.69" (119mm)
D: 1.44" (38mm)

Features and benefits

- Standalone solutions are not compatible with the Vive hub
- Lutron XCT technology greatly enhances the performance of dual-technology sensors, enabling them to detect very fine motion like typing
- Automatically turns lights off when space is unoccupied
- Easy to install; directly replaces an existing control
- Lutron's Smart Ambient Light Detection learns your preferences over time and adapts accordingly
- Lutron's Adaptive Zero-Cross Switching extends relay lifetime
- 180° sensor field-of-view; must have unobstructed view
- Up to 900 ft² major motion coverage and 400 ft² minor motion coverage
- Adjustable timeout—1, 5, 15, 30 minutes
- Vacancy models available to meet CA Title 24 requirements
- Dual-circuit sensors provide bi-level control of two circuits, as required by specific energy codes
- Select from up to 27 colors to complement the décor*

Product options

Maestro Sensor switch†

MS-A102-XX	6 A lighting, 120-277 V dual-tech occupancy/vacancy sensor, 4.4 A fan (120 V only); single pole, no neutral
MS-B102-XX	6 A lighting, 120-277 V dual-tech occupancy/vacancy sensor, 4.4 A fan (120 V only); multi-location/3-way, neutral required

Maestro Dual-circuit sensor switch

MS-A202-XX	6 A lighting per circuit, 120-277 V dual-tech occupancy/vacancy, 4.4 A fan (120 V only) per circuit; single pole, no neutral
MS-B202-XX	6 A lighting per circuit, 120-277 V dual-tech occupancy/vacancy sensor, 4.4 A fan (120 V only) per circuit; 3-way, neutral required

* (XX in the model number represents color/finish code; use WH for White; please visit www.lutron.com for other color choices.) See Maestro colors on page 51.

† Vacancy only models available. Add "-V-" before the color code (XX).



In-wall PIR occupancy/vacancy sensor switches

Dimensions

W: 2.94" (75mm)
H: 4.69" (119mm)
D: 1.44" (38mm)

Features and benefits

- Standalone solutions are not compatible with the Vive hub
- Lutron XCT technology for superior sensitivity prevents false ons and false offs
- Automatically turns lights off when space is unoccupied
- Easy to install; directly replaces an existing control
- Lutron's Smart Ambient Light Detection learns your preferences over time and adapts accordingly
- 180° sensor field-of-view; must have unobstructed view
- Up to 900 ft² major motion coverage and 400 ft² minor motion coverage
- Adjustable timeout—1, 5, 15, 30 minutes
- Vacancy models available to meet CA Title 24 requirements
- Select from up to 27 colors to complement the décor*

Product options

0-10 V dimmer sensor†

MS-Z101-XX	8 A lighting 120-277 V; occupancy/vacancy; multi-location/3-way/single pole
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Controls electronic LED drivers and fluorescent ballasts

- Miswire and load incompatibility alert —lens will flash red if control is miswired or connected to an incompatible fixture
- Selectable dimming curve optimizes performance of 0-10 V LED drivers
- Lutron's Adaptive Zero-Cross Switching extends relay lifetime

* (XX in the model number represents color/finish code; use WH for White; please visit www.lutron.com for other color choices.) See Maestro colors on page 51.

† Vacancy-only models available. Replace the "O" in the model number with a "V".



C-L dimmer sensor†

Dimensions

W: 2.94" (75mm)
H: 4.69" (119mm)
D: 1.44" (38mm)

Features and benefits

- Standalone solutions are not compatible with the Vive hub
- C-L dimmer for control of screw-based CFLs and LEDs

Product options

C-L dimmer sensor†

MSCL-OP153M-XX	C-L dimmer with PIR sensor; occupancy/vacancy; multi-location/3-way/single pole; 150 W CFL/LED, 600 W incandescent/halogen
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* (XX in the model number represents color/finish code; use WH for White; please visit www.lutron.com for other color choices.) See Maestro colors on page 49.

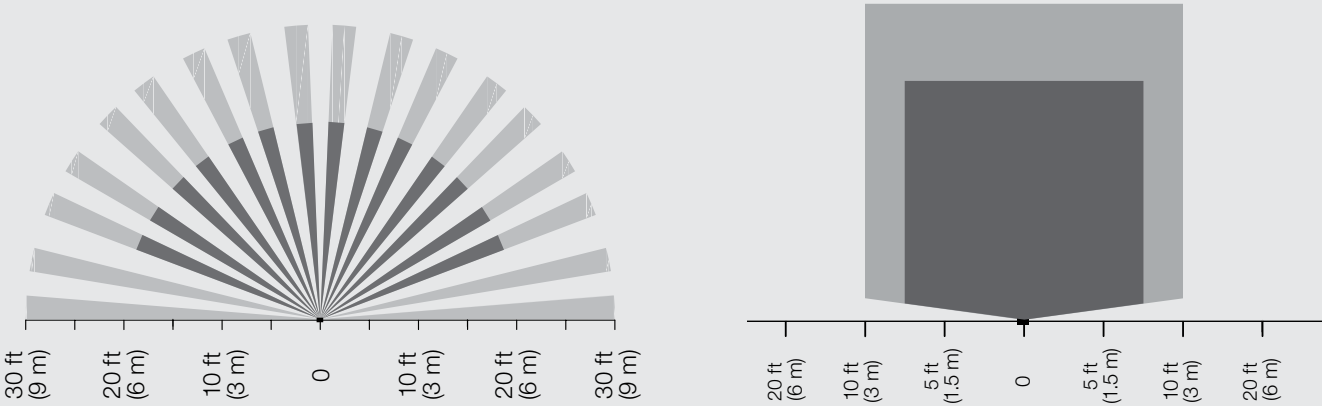
† Vacancy-only models available. Replace the “O” in the model number with a “V”.

‡ For dual-tech or 0-10 V vacancy models, Add “-V-” before the color code (XX).

Sensor coverage diagrams

In-wall

PIR beam diagram
(for reference only)



* Sensor mounting shown at 7 ft (2.1 m). Mounting height should be between 6 and 8 ft (1.6 and 2.4 m).



Model number	Description	List Price (US)
Sensor switches *		
MS-OPS2-XX	2 A lighting, 120 V PIR occupancy/vacancy; single pole, no neutral	29.00
MS-OPS5M-XX	5 A lighting, 120 V PIR occupancy/vacancy; 3 A fan, multi-location/3-way/single pole, no neutral	41.50
MS-OPS6M2-DV-XX	6 A lighting, 120-277 V PIR occupancy/vacancy, 3 A fan (120 V only); no neutral	53.00
MS-OPS6M2N-DV-XX	6 A lighting, 120-277 V PIR occupancy/vacancy, 3 A fan (120 V only); neutral required	53.00
MS-OPS6M2U-DV-XX	6 A lighting, 120-277 V PIR occupancy/vacancy, 3 A fan (120 V only); configurable ground or neutral wire	54.00
Dual-circuit sensor switches *		
MS-OPS6-DDV-XX	6 A lighting per circuit, 120-277 V PIR dual-circuit occupancy/vacancy; 4.4 A fan (120 V only) per circuit; single pole	89.00
MS-PPS6-DDV-XX	6 A lighting per circuit, 120-277 V PIR dual-circuit partial-on occupancy/vacancy, 4.4 A fan (120 V only) per circuit; single pole	89.00
Dual-technology sensor switches **		
MS-A102-XX	6 A lighting, 120-277 V dual-tech occupancy/vacancy sensor, 4.4 A fan (120 V only); single pole, no neutral	100.00
MS-B102-XX	6 A lighting, 120-277 V dual-tech occupancy/vacancy sensor, 4.4 A fan (120 V only); multi-location/3-way, neutral required	100.00
Dual-technology dual-circuit sensor switches **		
MS-A202-XX	6 A lighting per circuit, 120-277 V dual-tech occupancy/vacancy, 4.4 A fan (120 V only) per circuit; single pole, no neutral	125.00
MS-B202-XX	6 A lighting per circuit, 120-277 V dual-tech occupancy/vacancy sensor, 4.4 A fan (120 V only) per circuit; 3-way, neutral required	125.00
Sensor dimmers **		
MS-Z101-XX	8 A lighting 120-277 V; occupancy/vacancy; multi-location/3-way/single pole	110.00
MSCL-OP153M-XX	C-L dimmer with PIR sensor; occupancy/vacancy; single pole/3-way/multi-location; 150 W CFL/LED, 600 W incandescent/halogen	54.00

* Vacancy models available to meet California Title 24 section 119(j) requirements.

** For dual-tech or 0-10 V vacancy models, add “-V-” before the color code (XX).

For a list of all Vive wireless solutions product model numbers and pricing see **lutron.com/vive**



lutron.com

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