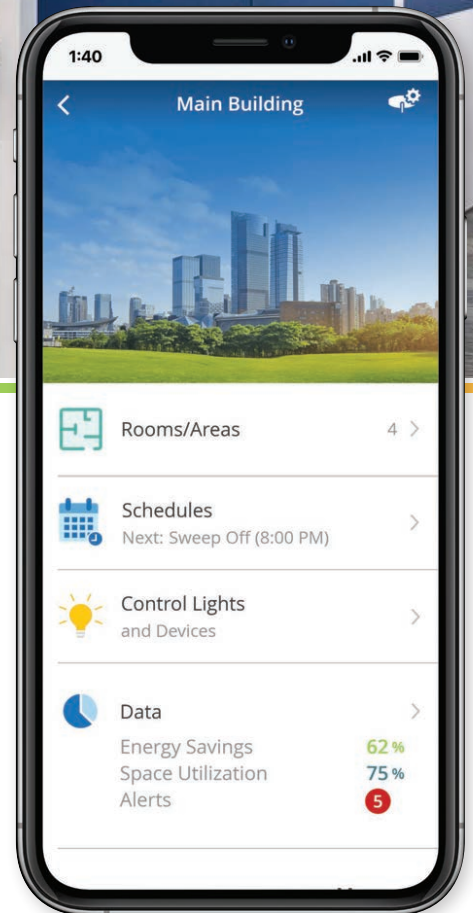
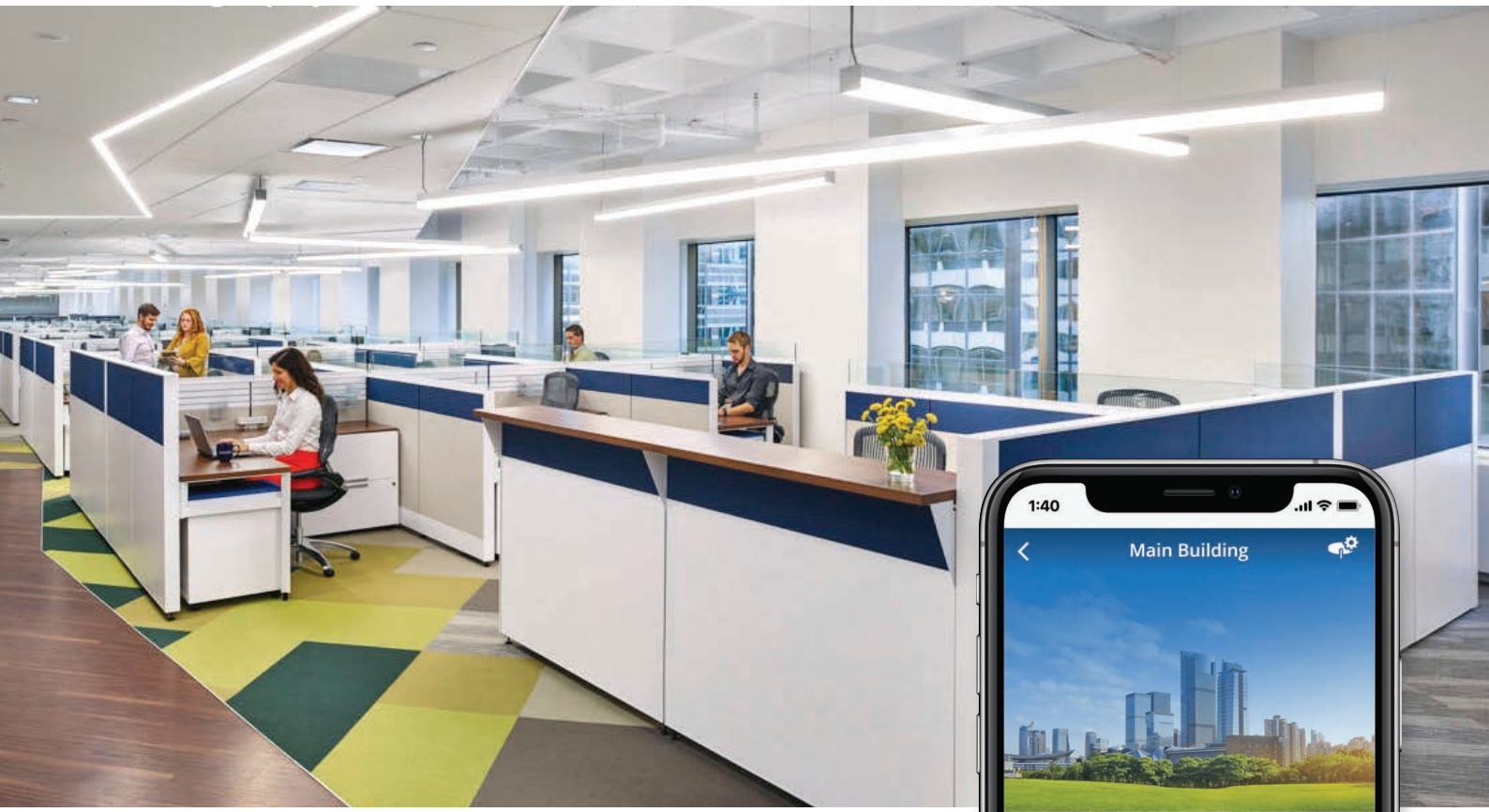




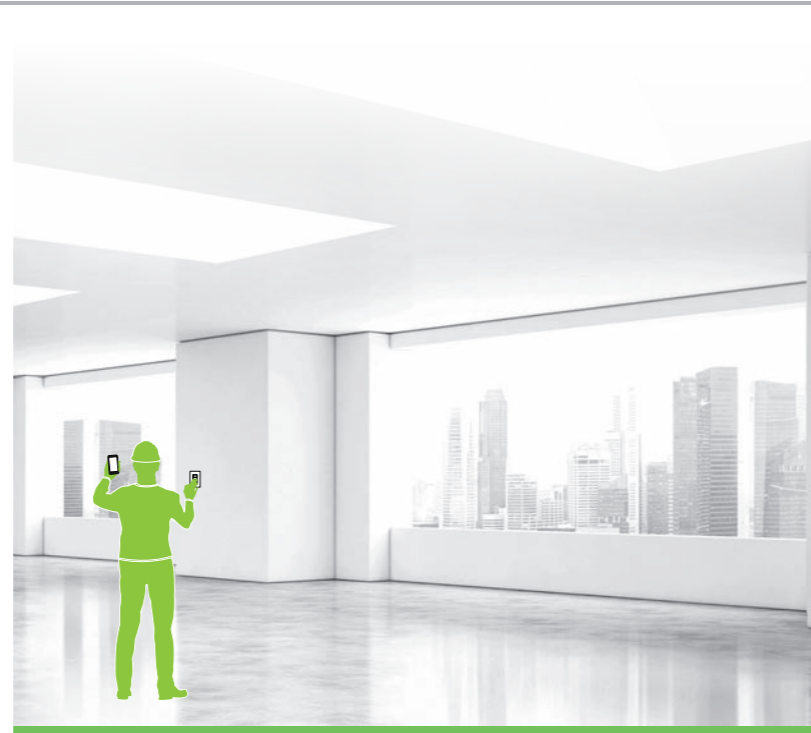
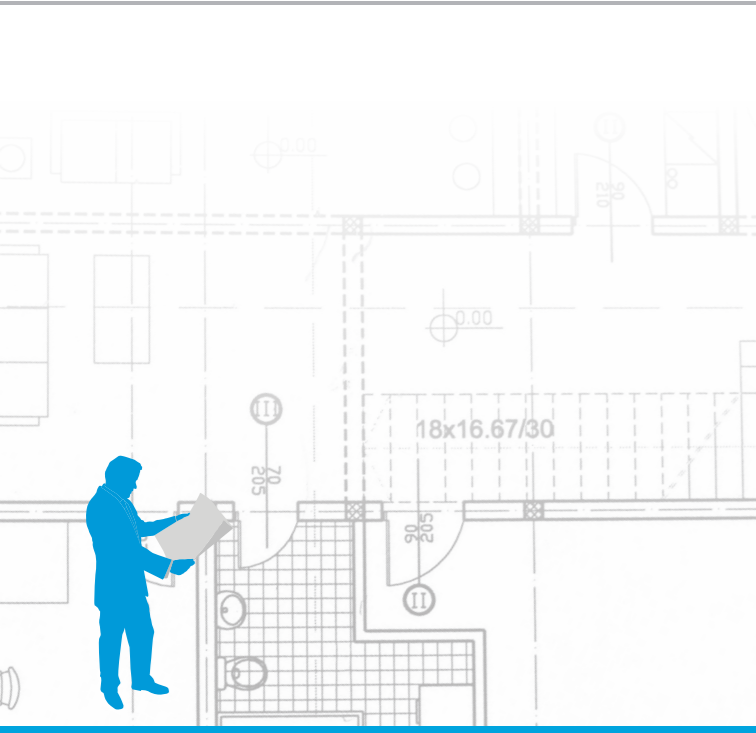
Simple, scalable, wireless  
**lighting control**



Flexible control every step of the way

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





**DESIGN** 

The flexibility you need to design your building

**Build your system from a full suite of products** — specify a simple occupancy sensor solution, or design a fully integrated lighting management system using the same suite of products

**Easily match controls to the fixture package** — switching, DALI, 0–10V, Phase control, or any combination

**Expand the system at any time** — add control options, add new areas, easily upgrade software to add new features

**INSTALL** 

Wireless simplifies installation and reduces callbacks

**Less wiring makes installation faster** — reduce labour time by up to 70%<sup>1</sup>

**Setup is as simple as pushing a button or using your smart device** — no manufacturer commissioning required, further reducing time and labour cost (the Lutron services team is always available if you want some additional support)

**Start small and expand at any time** — with no new wiring — meet budget requirements and changing space needs

**Eliminate callbacks** — Lutron’s proven reliability helps you stay within budget and reduces your time on the job

**MAINTAIN** 

Maximise productivity and building performance

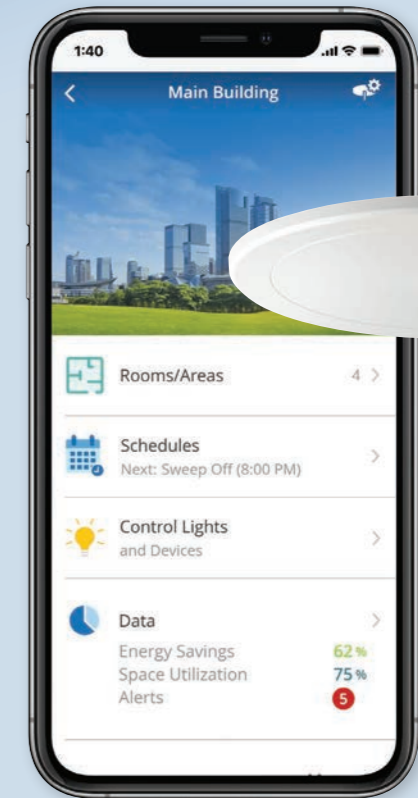
**Monitor, adjust, and manage your system from any smart device** — easily adjust the lighting control to accommodate building churn, improve occupant comfort, and enhance energy efficiency

**Energy savings** — lighting uses more electricity than any other building system. Lutron solutions can save up to 60%<sup>2</sup> or more of that lighting energy

**Minimise down time** — wireless controls install quickly to minimise disruption to building occupants

**Expand capability** — add new controls or upgrade software at any time without replacing the existing system

**Simplify integration** — using BACnet protocol, connect with other building systems at the time of initial installation or whenever you expand the system



Vive wireless hub

Vive software

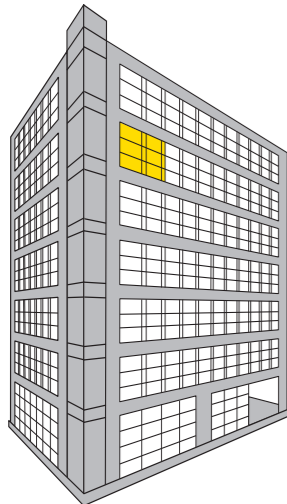
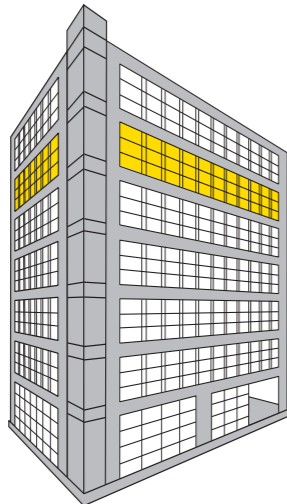
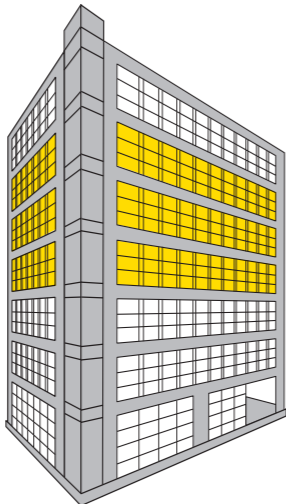
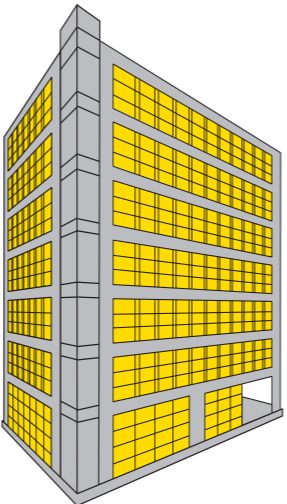
The Vive wireless family gives you the right solution now and for years to come

- Any budget
- Area and sensor controls
- Meet latest building regulations and standards
- No factory setup required

**When you choose Lutron solutions, you can be confident that the system just works, and it will keep working.**



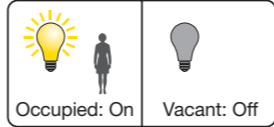
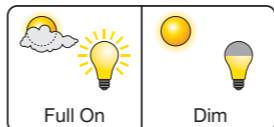
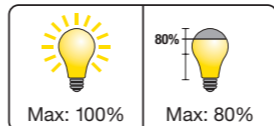
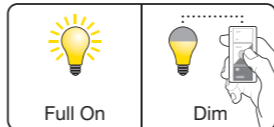
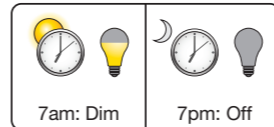
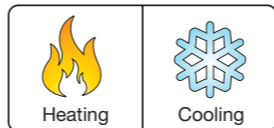
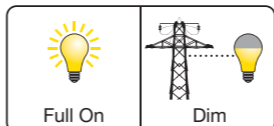
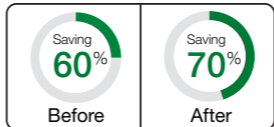
Vive wireless solutions offer a multi-strategy approach that accommodates your budget and performance needs now, and for the future of your building.

<p>1</p>  <p>Single office space</p> <p>Start by adding control in a single space and expand as budgets and occupant schedules allow.</p>	<p>2</p>  <p>Single floor</p> <p>Expand to new areas or an entire floor at any time without reprogramming or replacing existing equipment. By connecting to a Vive wireless hub.</p>	<p>3</p>  <p>Multiple floors</p> <p>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.</p>	<p>4</p>  <p>Entire building</p> <p>Vive offers seamless integration to other building management systems through BACnet.</p>
--	--	---	---

Combine lighting control strategies to maximise efficiency

**What is the savings opportunity?**

Lutron solutions can save 60%<sup>3</sup> or more lighting energy.

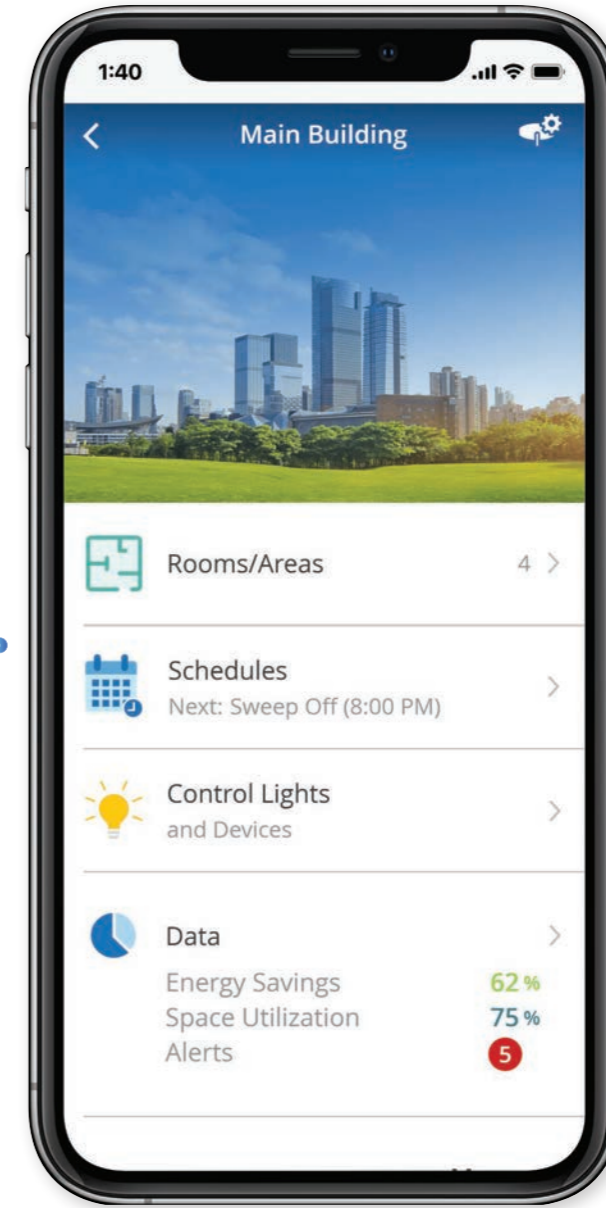
	<p><b>Occupancy/vacancy sensing</b> turns lights on when occupants are in a space and off when they vacate the space.</p>	<p><b>Potential savings</b></p> <p>20–60% Lighting</p>
	<p><b>Daylight harvesting</b> dims electric lights when daylight is available to light the space.</p>	<p>25–60% Lighting</p>
	<p><b>High-end trim</b> sets the maximum light level based on customer requirements in each space.</p>	<p>10–30% Lighting</p>
	<p><b>Personal dimming control</b> gives occupants the ability to adjust the light level.</p>	<p>10–20% Lighting</p>
	<p><b>Scheduling</b> provides pre-programmed changes in light levels based on time of day.</p>	<p>10–20% Lighting</p>
	<p><b>HVAC integration</b> controls heating, ventilation, and air conditioning systems through contact closure, or BACnet protocol.</p>	<p>5–15% HVAC</p>
	<p><b>Load shedding</b> automatically reduces lighting loads during peak electricity usage times.</p>	<p>30–50% Peak Period</p>
	<p><b>System Optimisation Service</b> from Lutron identifies important lighting control adjustments to save additional energy and create a more productive work environment on an ongoing basis.</p>	<p>Variable</p>



Wireless controls and sensors




Simple-to-use software




Vive software

Communication protocols

- 

Communicate via RF to control components
- 

Communicate via WiFi to smart devices
- 

Communicate via wired Ethernet to Vive hub

## The right control in the right space

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

### Simple switching

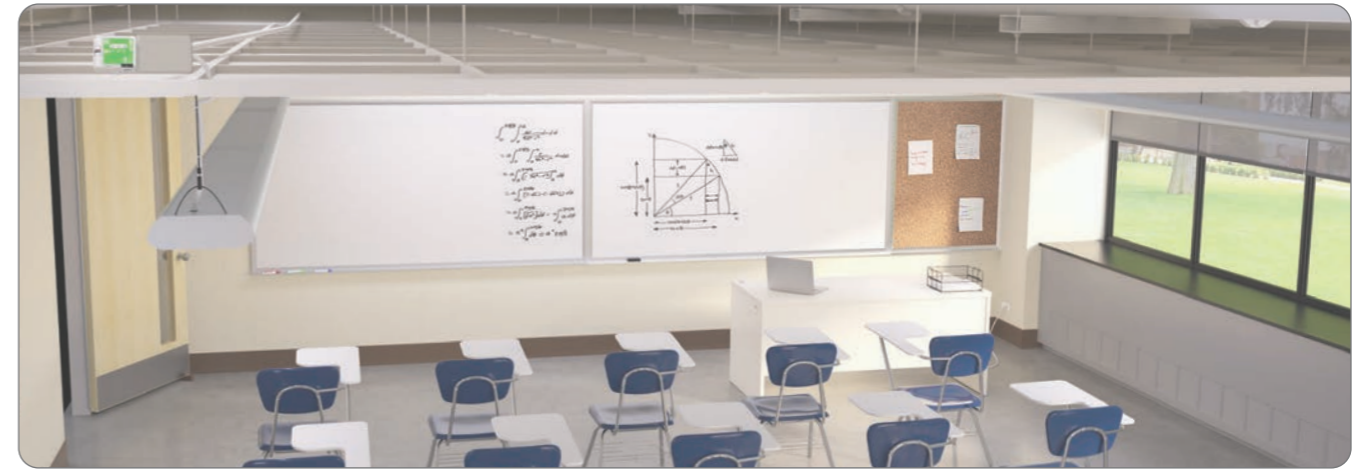
#### Classroom

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



Remote | PowPak | Occupancy sensor

### Simple switching



### Area dimming and sensing

#### Open office

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

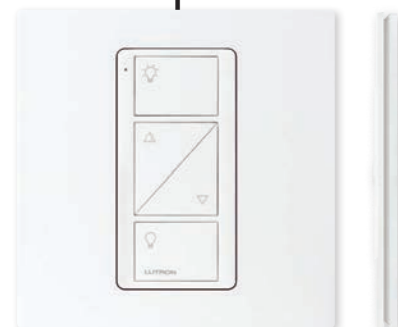
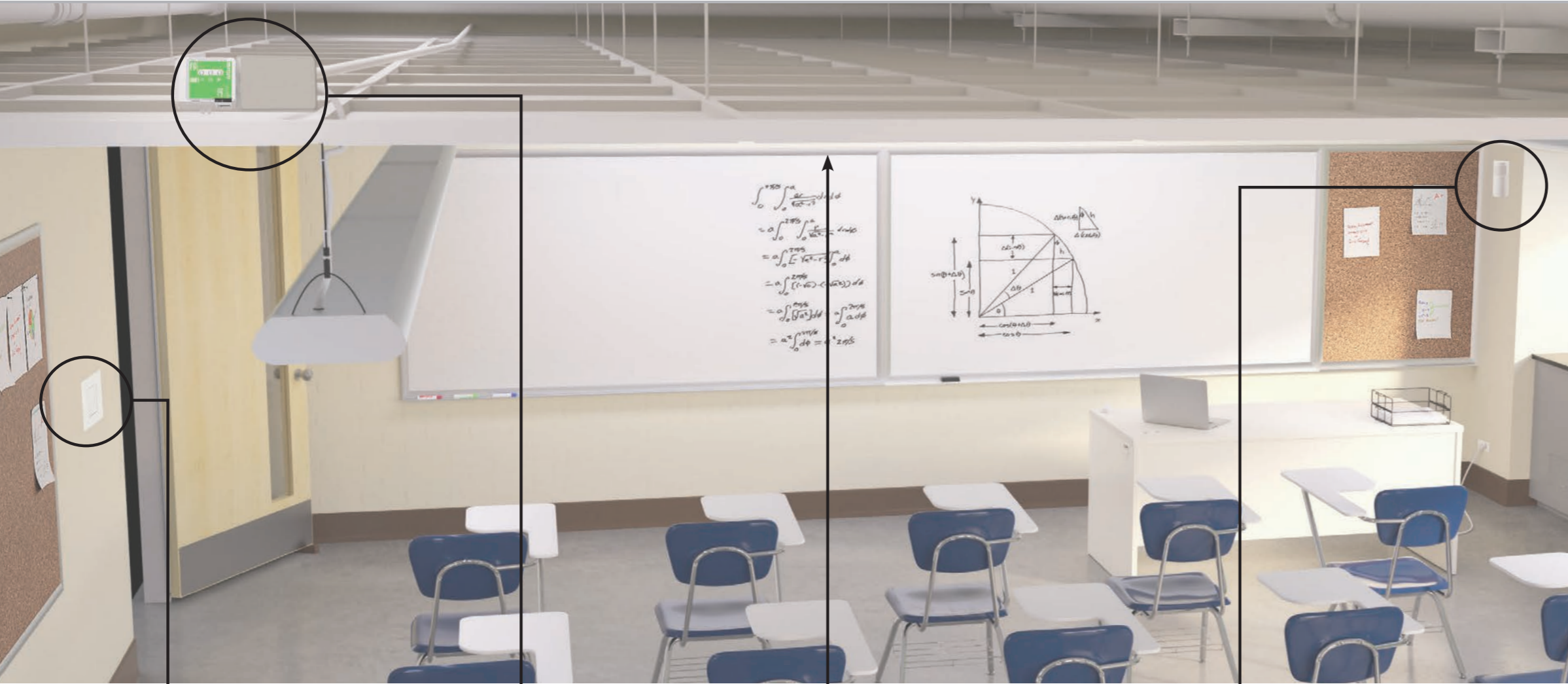


Dimming module | Occupancy sensor | Daylight sensor | Pico remote

### Area dimming and sensing







**Wireless Remote**  
Mount anywhere

**No wires —**  
Put it where it is most accessible



**Wireless Load Control**  
Junction box or marshalling box

**Easy Retrofit —**  
PowPak modules mount on a standard junction box or marshalling box in the ceiling to control a group of lights



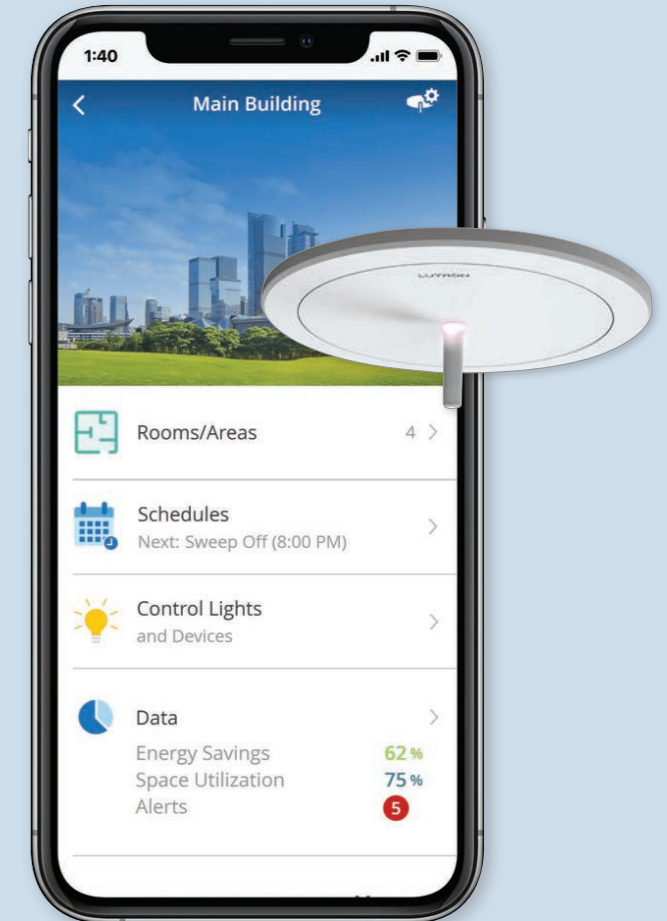
**Wireless Daylight Sensor**  
Ceiling mount

**No wires —**  
10 year battery life



**Wireless Occupancy Sensor**  
Corner/Ceiling/wall mount

**No wires —**  
Easily mount it anywhere



**Vive Wireless Hub**

- Add a Vive Hub to any job for simple set-up, control and monitoring
- Each hub wirelessly communicates with devices in a 929m<sup>2</sup> (10,000 sq. ft.) area



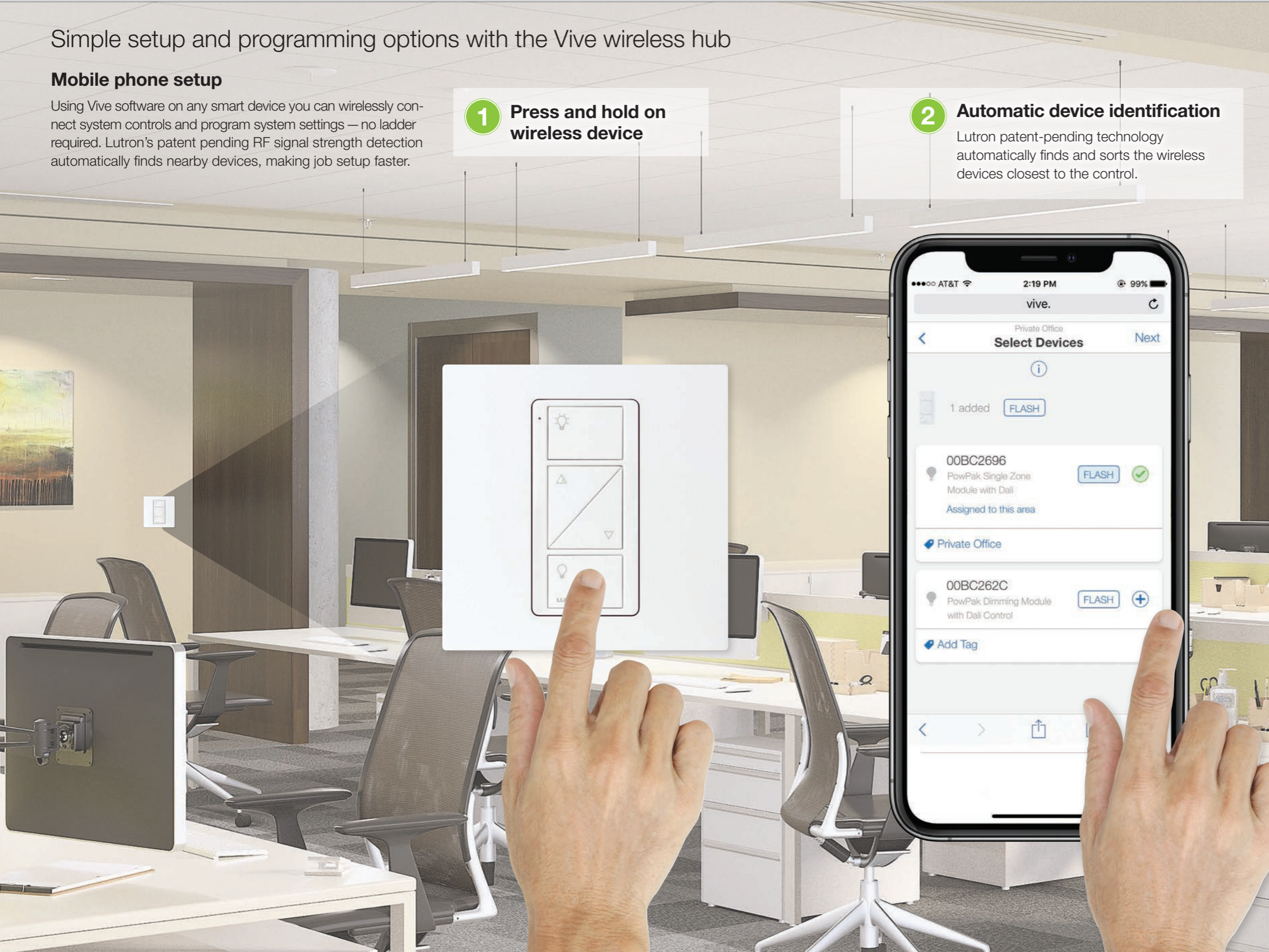
Simple setup and programming options with the Vive wireless hub

**Mobile phone setup**

Using Vive 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 device 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.



PowPak

**Press and hold for 6 seconds**



Occupancy sensor

**Press and hold for 6 seconds**

**It works! Sensor now talks to the wireless dimmer**





### DATA: Energy savings and space utilization

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.



### Scene Control

Create and configure scenes to control individual devices, areas, or groups of areas on demand.



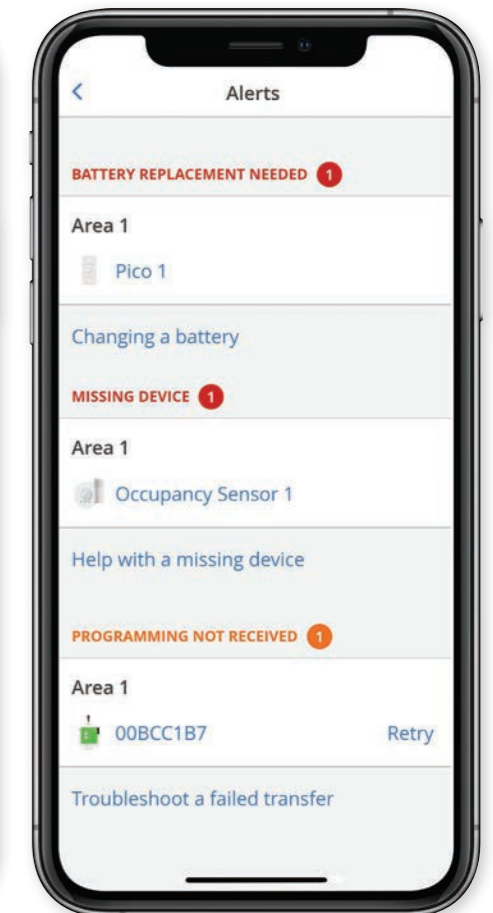
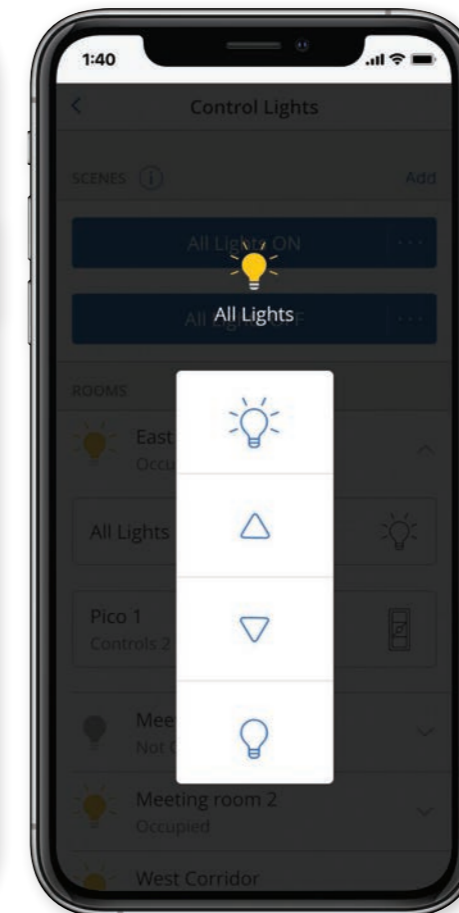
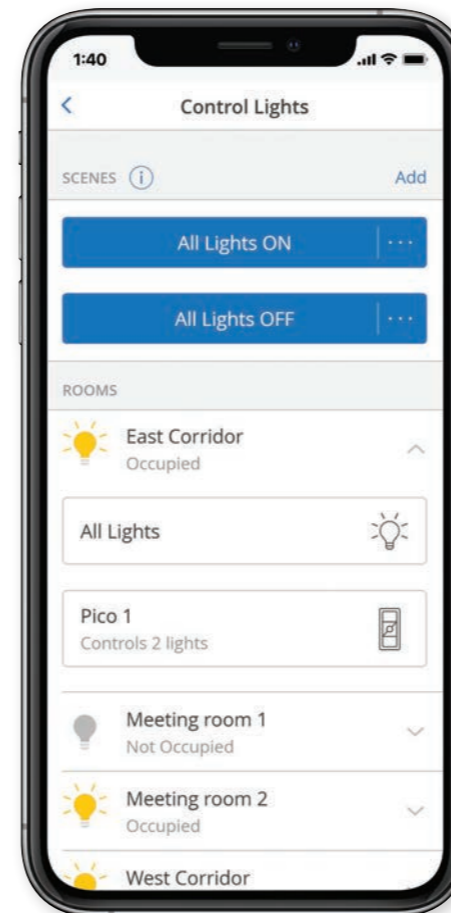
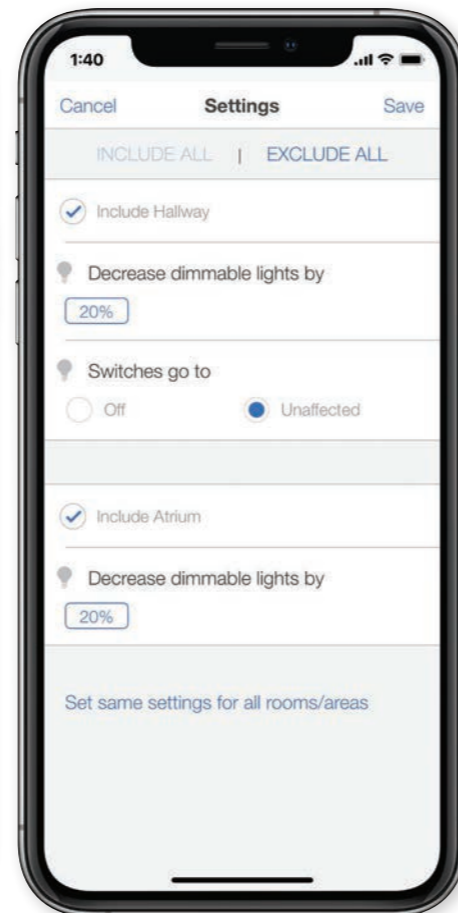
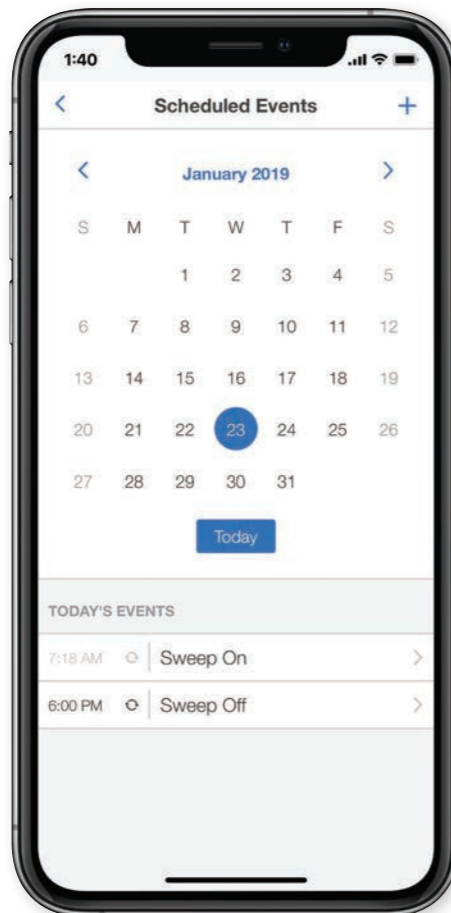
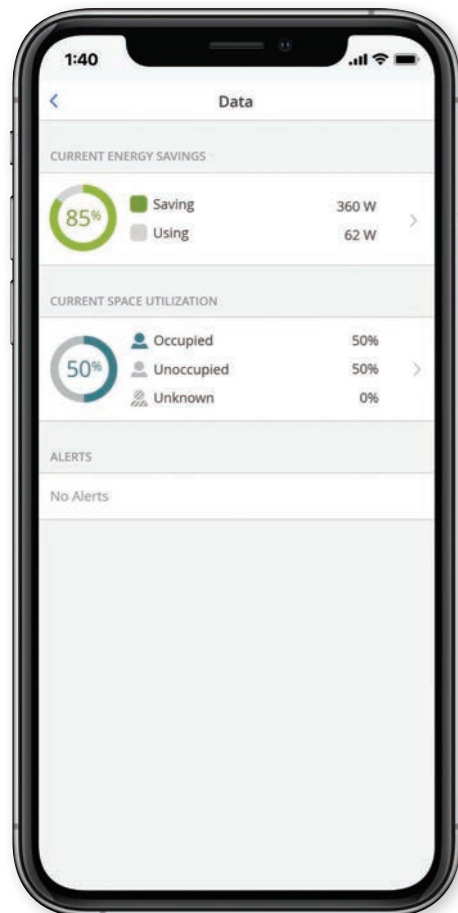
### Light Control

Directly adjust the light levels remotely from any smart device. Easily respond to occupant requests without needing to be in the physical space.



### Alerts

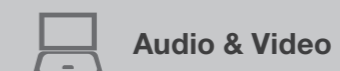
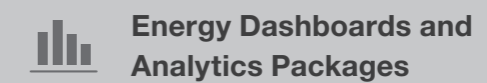
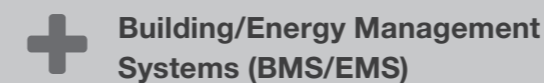
View proactive alerts that show issues such as low batteries or inactive devices to help improve building maintenance efficiency.



## 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.

API integration, native on the Vive hub, enables integration with third party devices, systems, and software. RESTful APIs are available over the ethernet.





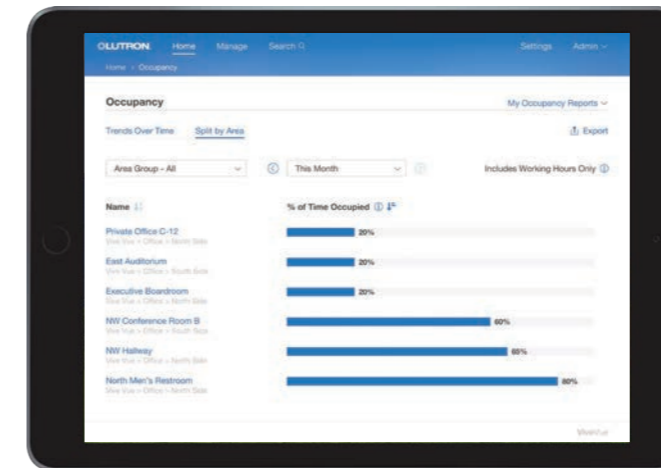
## Vive Vue software

Vive Vue software provides the ability to link multiple Vive hubs together in one software interface. Built with the simple, scalable, wireless building blocks of the Vive Wireless system, Vive Vue software 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 optimise your building quickly and efficiently with a graphical floorplan.



### Optimise your space

Improve building layout based on actual occupancy and usage information. With space utilisation 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 customisable reports, Vive Vue software helps you demonstrate the energy-saving advantages of wireless lighting control.



### Manage data and operations for multiple Lutron lighting and blind control solutions

- A single data and management platform for your connected buildings
- The system interface delivers a simple, consistent user experience from any PC or tablet
- Open, easy integration with BACnet and web APIs leverages the IoT to enhance smart-building performance

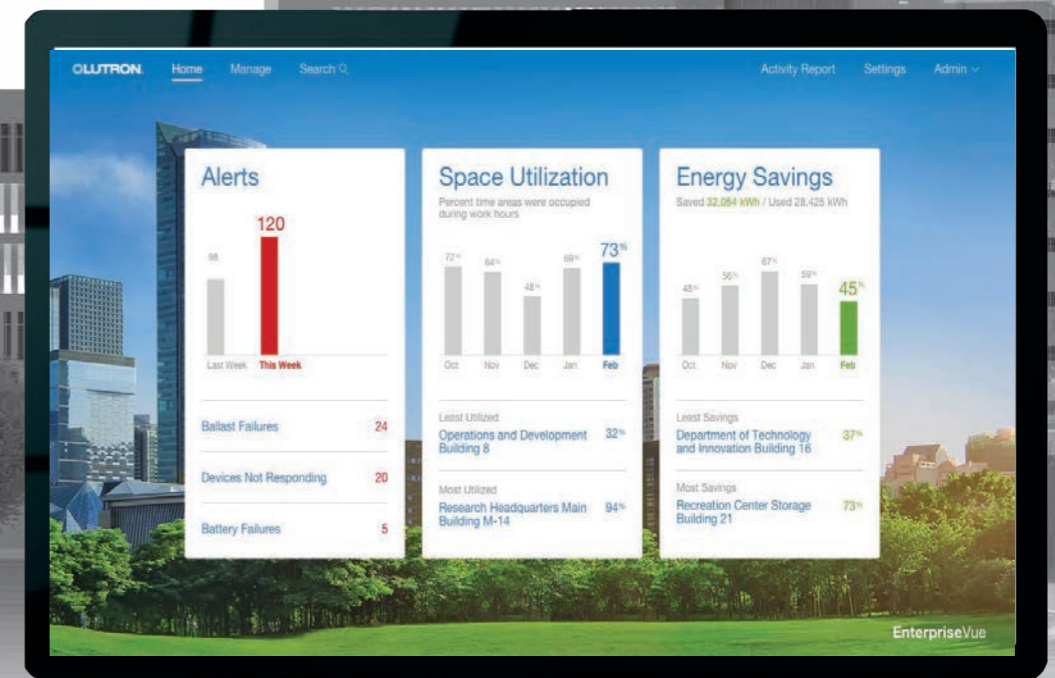
Enterprise Vue

VIVE

VIVE

QUANTUM

QUANTUM



Enterprise Vue home screen





**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 utilises 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 Clear Connect being used to access the corporate network to gain confidential information
2. A distributed security architecture — each hub has its own unique keys
3. Best practices for securing passwords, including salting and use of SCrypt recommended by the International Standards Organization (ISO)
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 organisation with IT expertise throughout the product lifecycle

### Clear Connect wireless technology

All Lutron wireless products utilise 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



#### 868 MHz: Lutron Clear Connect wireless technology

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





## XCT sensing technology

Lutron's occupancy sensing will not leave occupants in the dark and eliminates callbacks

- Lutron sensors provide exceptional prevention of false-ons and false-offs
- Superior sensitivity — recognises the difference between fine human motion and background noise



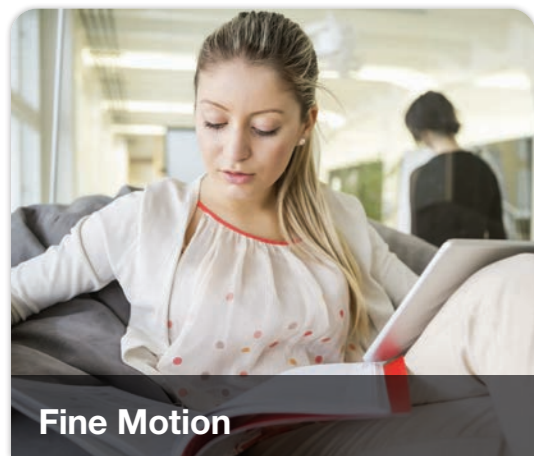
**Major Motion**

Person walking 1 metre (3 feet)



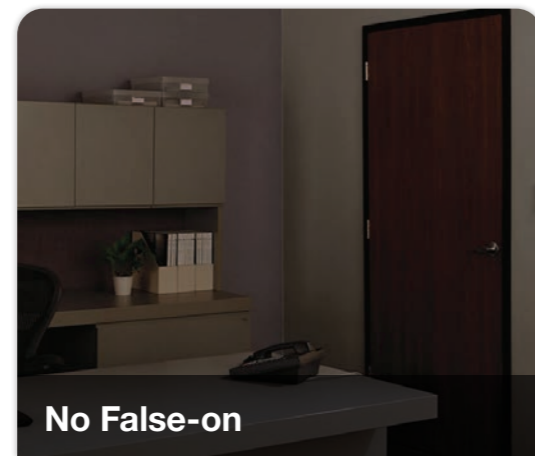
**Minor Motion**

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.

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.



**Leave the setup to us**

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

**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, or Lutron Customer Assistance tel: +44 (0)20 7680 4481 | [eatechnicalsupport@lutron.com](mailto:eatechnicalsupport@lutron.com) | [lutron.com/help](http://lutron.com/help) (24/7 Technical Support)





### Access to tools and resources at your fingertips.

Exclusive access and quick answers keep your project moving.



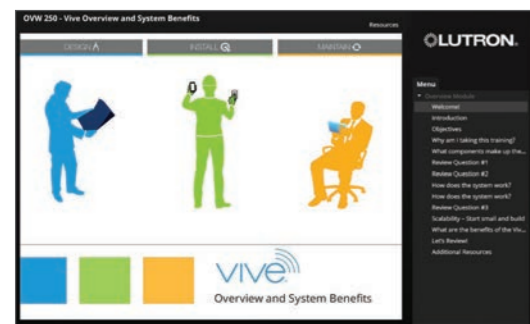
#### Designer+ for Vive

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 **free** access please contact [myLutronSupport@lutron.com](mailto: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.  
**YouTube – Lutron Vive Wireless**



#### Vive training

Visit [Lutron.com/LCIOOnline](http://Lutron.com/LCIOOnline) — Sign up for free, online training modules with practice exercises that walk you through the Vive system.

### Create flexible designs

Use these simple documents to specify and design Vive wireless systems for common applications.



#### Application guide for typical installations

Simple room based graphical layouts demonstrate how to apply Vive components to different spaces in your building

Available online at [lutron.com/vive-europe](http://lutron.com/vive-europe)



#### 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 [lutron.com/vive-europe](http://lutron.com/vive-europe)



**Vive wireless hub**

**Dimensions**

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



**Vive hub power supply**

**Dimensions**

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



**Features and benefits**

- Communicates with controls on a floor using Lutron wireless Clear Connect technology (range radius of 22 m [71 ft])
- Distributed system architecture
  - Pico remote controls and sensors communicate directly with the load devices they control and must be located within 9 m (30 ft) of the device with which they are associated
- Supports timeclock events based on both sunrise and sunset or fixed time-of-day
- Integrated multi-colour LED provides feedback on what mode the hub is in
- Two contact closure Inputs for integration with devices by others
- Each hub provides an individual dashboard for its coverage area and allows you to link to other hub dashboards from the mobile application
- API integration, native on the Vive hub, to enable integration with third party devices, systems, and software. RESTful APIs are available over the ethernet.
- Proactive alerts to inform batteries are low or devices may not be working to ensure system operates as expected.
- Scene control allows creating and configuring scenes to control individual devices, or groups of areas on demand and may be activated with the second contact closure input, API integration, or manual activation in the app.

**Product options**

**Vive wireless hub models**

**Starter (up to 75 devices)**

HKS-0-FM Flush mount

**Standard (up to 700 devices)**

HKS-1-FM Flush mount

HKS-1-SM Surface mount

**Premium with BACnet (up to 700 devices)**

HKS-2-FM Flush mount

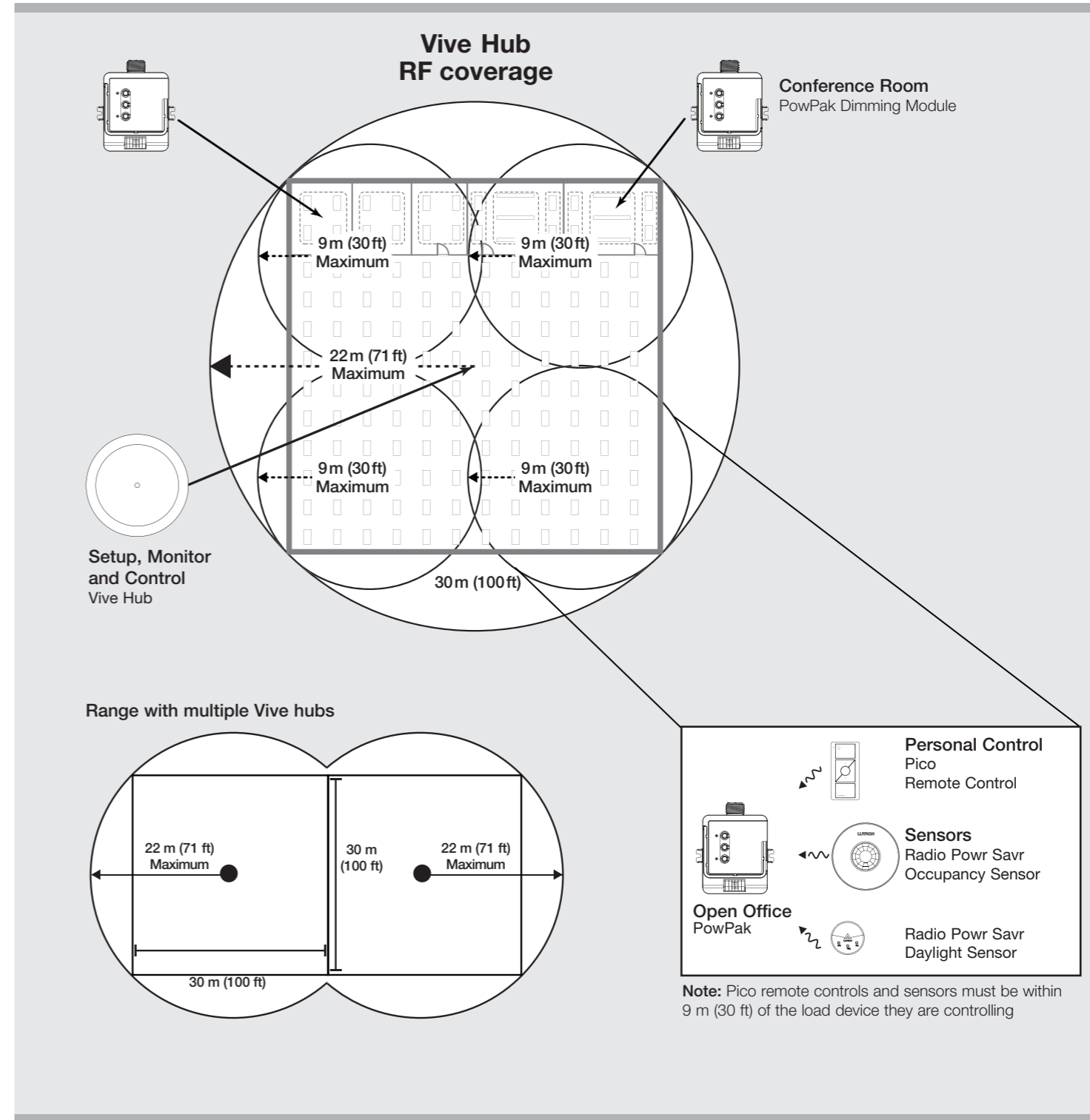
HKS-2-SM Surface mount

**Notes:**

- A minimum distance of 3 m (10 ft) between Vive wireless hubs on the same floor is required.
- 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 connect the Vive wireless hub to the corporate network using the Ether net connection on the hub, and disable the hub's Wi-Fi.
- Vive wireless hub must be mounted a minimum of 3 m (10 ft) 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 22 m (71 ft) of the Vive wireless hub and must be on the same floor as the Vive wireless hub.







**PowPak relay module**

**Dimensions**

**W:** 72 mm (2.89")  
**H:** 87 mm (3.44")  
**D:** 32 mm (1.25")

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:** 3840W or 6A Motor  
**5A:** 1200W
- **Contact closure output**  
For sending occupancy information to third-party equipment such as HVAC systems
- **Input** 220/240V

Product options

**16A models**

RMKS-16R-DV-B

**5A models**

RMKS-5R-DV-B



**PowPak dimming module with DALI control**

**Dimensions**

**W:** 72 mm (2.89")  
**H:** 87 mm (3.44")  
**D:** 32 mm (1.25")

How to design and specify

- **One control module with DALI**  
For each controlled DALI lighting zone in the space
- **Control**  
Select appropriate model based on the number of connected drivers/ballasts
- **Input** 220–240V 50/60Hz
- **DALI Link**  
Guaranteed Supply Current: 8 mA (4-driver/ballast model)  
64 mA (32-driver/ballast model)  
Maximum Supply Current: 250 mA  
DALI-2 Certified

Product options

**4-driver/ballast model**

RMKS-DAL4-SZ

**32-driver/ballast model**

RMKS-DAL32-SZ

PowPaks



**PowPak dimming module with 0–10V control**

**Dimensions**

**W:** 72 mm (2.89")  
**H:** 87 mm (3.44")  
**D:** 32 mm (1.25")

How to design and specify

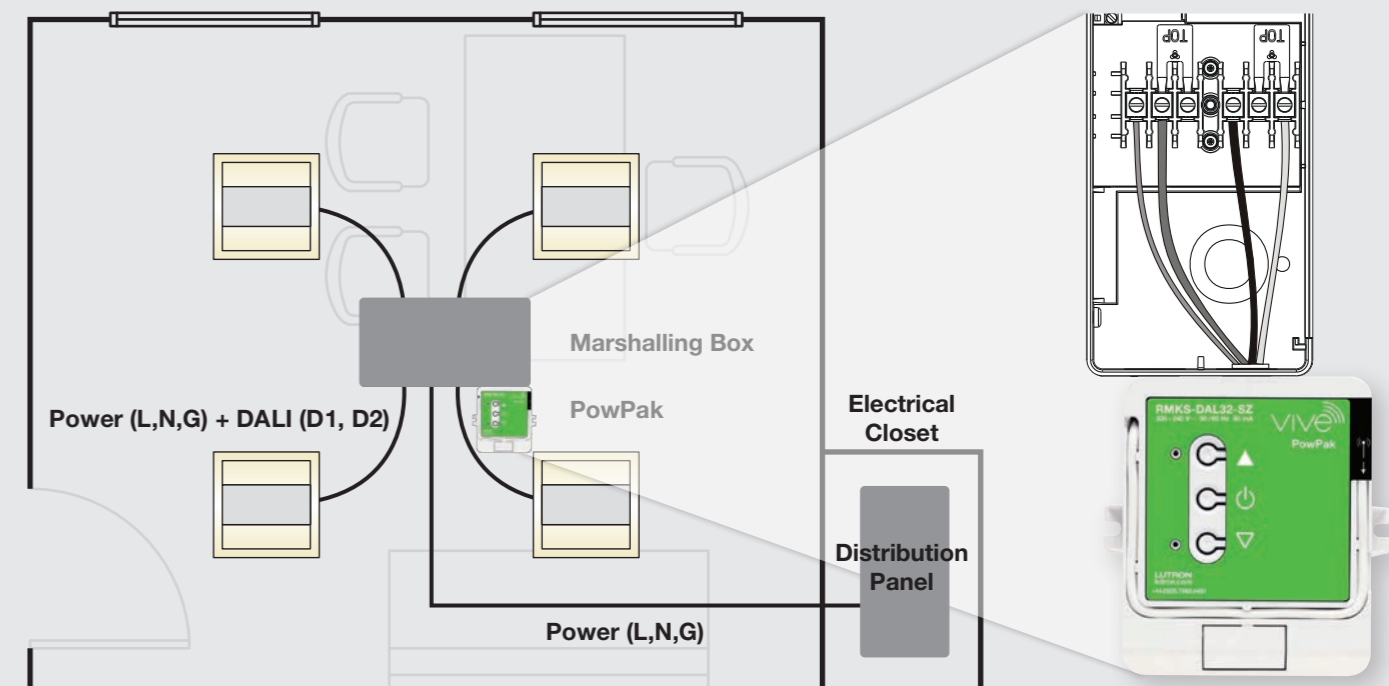
- **One dimming module with 0–10V control**  
For each controlled 0–10V lighting zone in the space
- **Control**  
**8A:** 0–10V controlled fixtures and switches compatible with third-party 0–10V fluorescent ballasts, LED drivers, and fixtures  
220–240V 8AX switching and 60mA of 0–10V LED
- **Input** 220–240V
- **0–10V Link**  
Communicates with up to 60mA of fixtures

Product options

**8A models with 0–10V control**

RMKS-8T-DV-B

Using PowPak load controllers, switches, and dimmers with marshalling boxes





**PowPak contact closure output module**

**Dimensions**

**W:** 72 mm (2.89")  
**H:** 87 mm (3.44")  
**D:** 32 mm (1.25")

How to design and specify

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

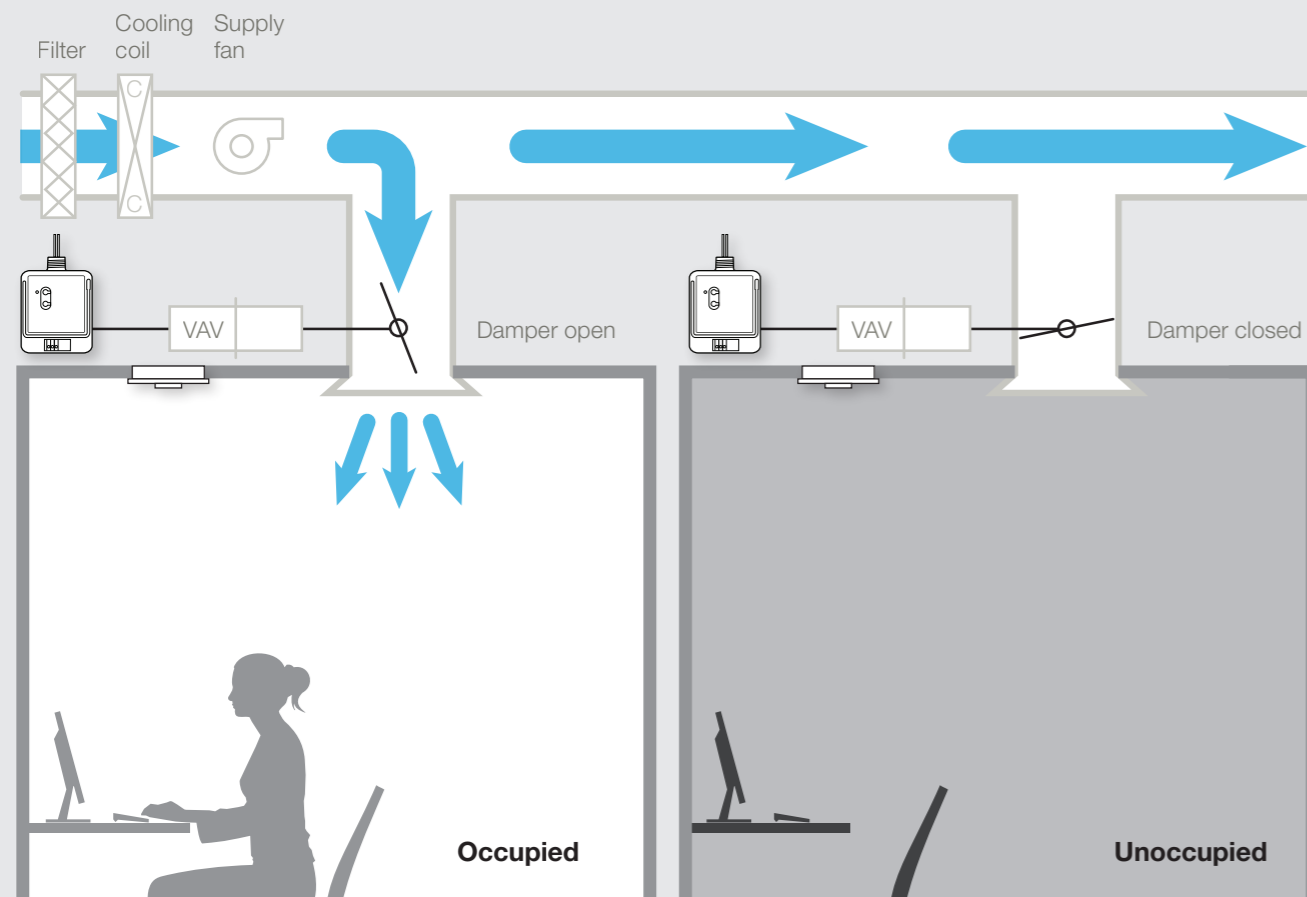
Product options

**Standard**

**RMKS-CC01-24-B** Contact closure output

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



**In-line dimmer**

**Dimensions**

**W:** 46 mm (1.8")  
**H:** 153 mm (6.0")  
**D:** 32 mm (1.25")

How to design and specify

- **One in-line dimmer**  
 For each controlled phase dimmable LED, incandescent, halogen, or ELV lighting zone in the space.
- **Control**  
**1 A / 150 W:** LED  
**250 W:** Incandescent, halogen, ELV loads
- **Input** 220–240 V~ 50/60 Hz

Product options

**In-line dimmer**

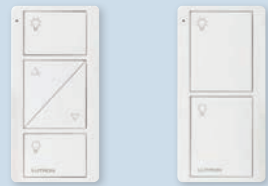
**RMKS-250NE** Trailing edge capable, phase dimmable LED, incandescent, halogen, ELV loads





**Pico wireless remotes**

3-button with raise/lower      3-button



2-button with raise/lower      2-button

**Dimensions**

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

**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
- 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**

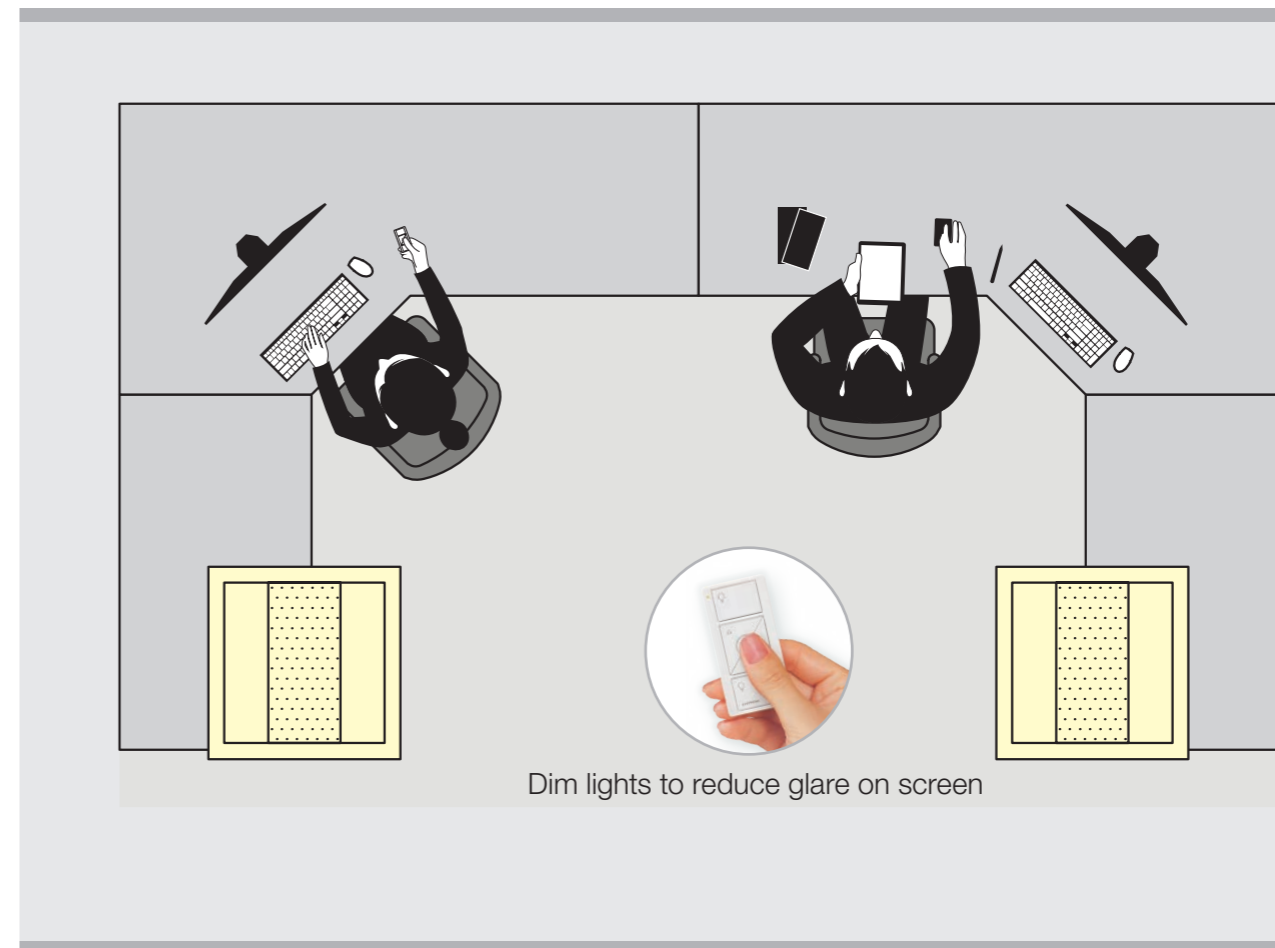
PK2-2BRL-TXX-L01	2-button with raise/lower wireless remote
PK2-2B-TXX-L01	2-button wireless remote

**3-button remotes**

PK2-3BRL-TXX-L01	3-button with raise/lower wireless remote
PK2-3B-TXX-L01	3-button wireless remote

**How it works**

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



Pico remote

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

Raise lights for reading visibility



**Pico wireless remotes**

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

**Dimensions**

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

**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**

<b>PK2-4B-TXX-L21P</b>	2-group control
<b>PK2-4B-TXX-L01</b>	Zone control
<b>PK2-4B-TXX-L31</b>	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
<b>Zone Control</b>		
Lights	-L01	-EL1
Blinds	-S01	-ES1
<b>Scene Control</b>		
Lights	-L31	-EL2
Blinds	-S31	-ES2



**Tabletop accessories**

**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**

<b>L-PED1-XX</b>	pedestal for one Pico remote
<b>L-PED2-XX</b>	pedestal for two Pico remotes
<b>L-PED3-XX</b>	pedestal for three Pico remotes



**Wall-mount accessories**

Pico wallplate adapter and wallplate

**Dimensions**

- W:** 89mm (3.50")
- H:** 89mm (3.50")
- D:** 10mm (0.38")

**How to design and specify**

- Select one Pico wallbox adapter for each Pico that you would like wall mounted with a wallplate

**Product options**

**Wall-mount accessories**

<b>LPFP-S1-TXX</b>	International Pico 1 column wallplate
<b>LPFP-S2-TXX</b>	International Pico 2 column wallplate





**Wireless occupancy/vacancy sensors**

**Dimensions**

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

**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 2.4 m (8ft) ceilings: 44.9m<sup>2</sup> (484ft<sup>2</sup>)
- For 3.7 m (12ft) ceilings: 62.4m<sup>2</sup> (676ft<sup>2</sup>)
- Settings adjustable to change behaviour including occupancy to vacancy sensing, occupied and unoccupied levels
- Timeout options include: 30 min, 15 min (default), 5 min

**Product options**

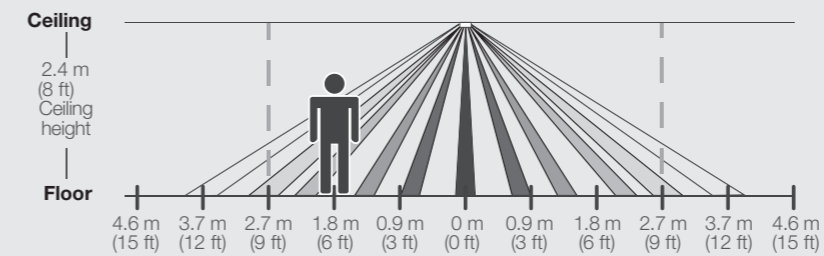
**Ceiling-mount sensors**

**LRF3-OCR2B-P-WH**      Occupancy/vacancy

**Sensor coverage diagrams**

**Ceiling mount, 360°**

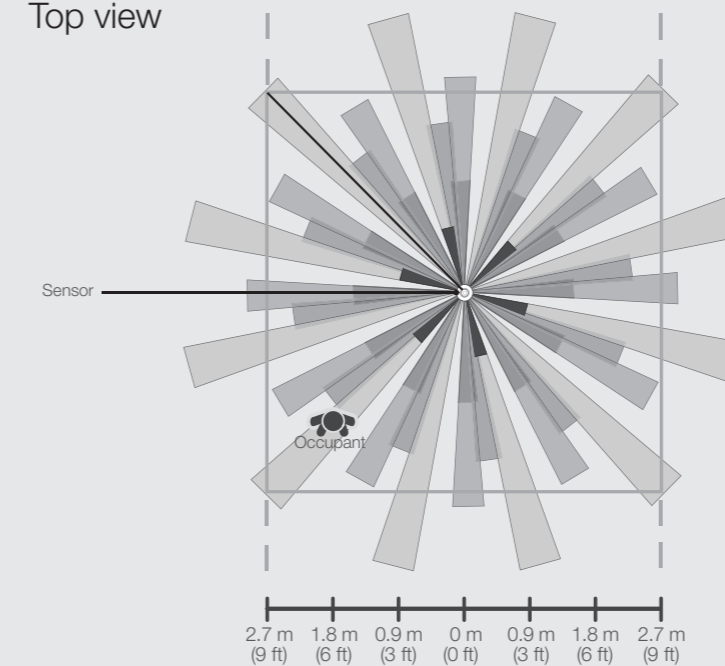
**Floor view**



**Coverage varies by ceiling height**

**Key:**  
 Minor motion  
 Major motion

**Top view**



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

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

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

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



**Radio Powr Savr  
Wireless sensors**

**Dimensions**

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



**Flexible armature mounting kit**

**Dimensions**

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

**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: 278.7 m<sup>2</sup> (3,000 ft<sup>2</sup>)

**LRF3-OWLB-P-WH**      Occupancy/vacancy

**Corner-mount sensors**

- Use in medium to large open rooms with few tall obstructions
- Coverage: 232 m<sup>2</sup> (2,500 ft<sup>2</sup>)

**LRF3-OKLB-P-WH**      Occupancy/vacancy

**Hallway sensors**

- For a 1.82 m (6 ft) wide hallway: 15.24 m (50 ft) coverage
- For a 3.0 m (10 ft) wide hallway: 45.72 m (150 ft) coverage

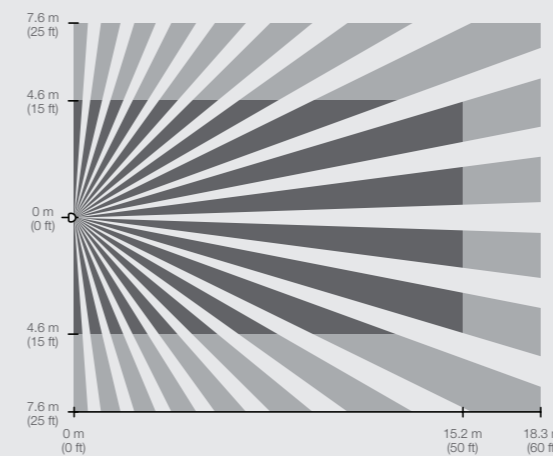
**LRF3-OHLB-P-WH**      Occupancy/vacancy

**Sensor coverage diagrams**

**Wall mount\*, 180°**

139.4 m<sup>2</sup> (1,500 ft<sup>2</sup>)—minor motion  
278.7 m<sup>2</sup> (3,000 ft<sup>2</sup>)—major motion

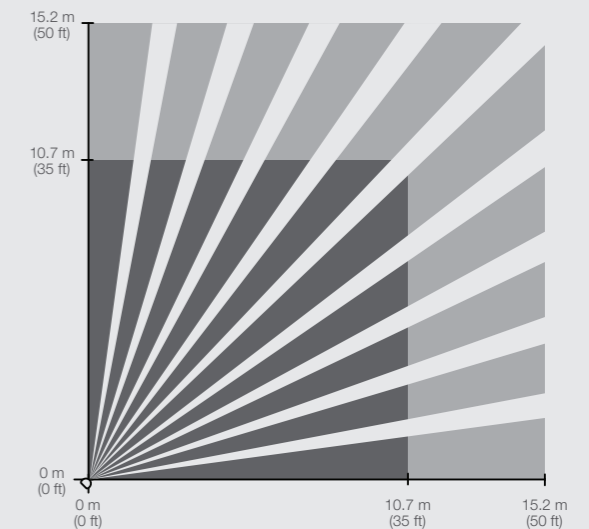
**Top view**



**Corner mount\*, 90°**

113.8 m<sup>2</sup> (1,225 ft<sup>2</sup>)—minor motion  
232.3 m<sup>2</sup> (2,500 ft<sup>2</sup>)—major motion

**Top view**



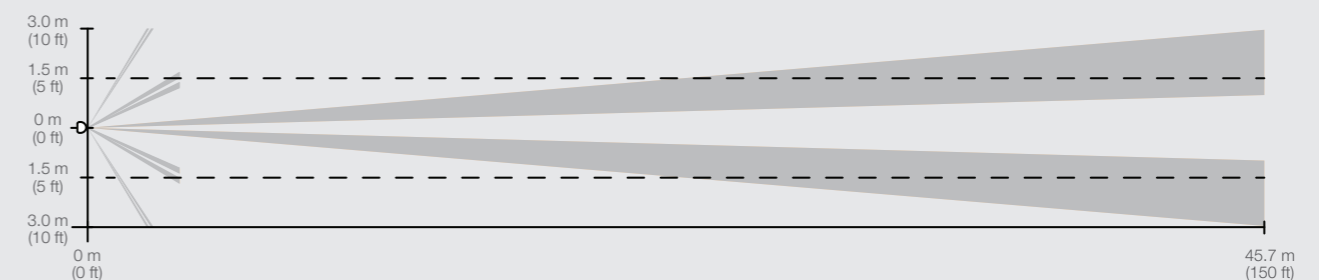
**Key:**

- 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
1.8 m (6 ft) or less	15.2 m (50 ft)
2.4 m (8 ft)	30.5 m (100 ft)
3.0 m (10 ft) or more	45.7 m (150 ft)

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





**Wireless daylight sensors**

**Dimensions**

**W:** 41 mm (1.6")

**H:** 41 mm (1.6")

**D:** 17 mm (0.7")

**How to design and specify**

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

**Product options**

**Daylight sensor**

LRF3-DCRB-WH	Daylight sensor
--------------	-----------------

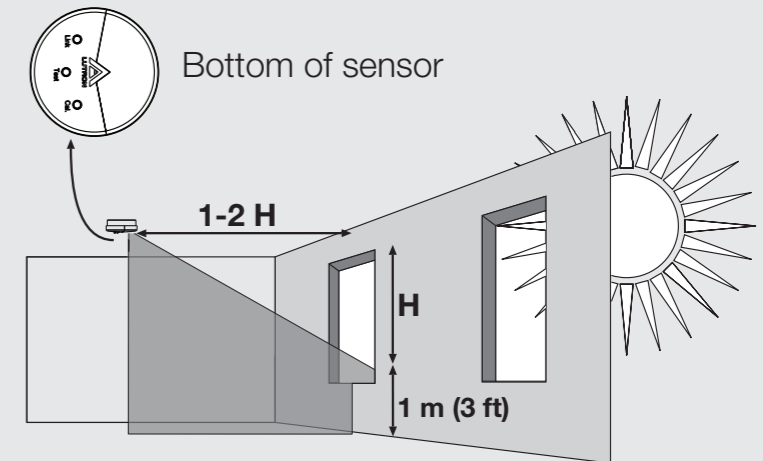
\* Sensor mounting shown at 7 ft (2.1 m). Mounting height should be between 6 and 8 ft (1.6 and 2.4 m).

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

**Sensor coverage diagrams**

**Location for average size areas**

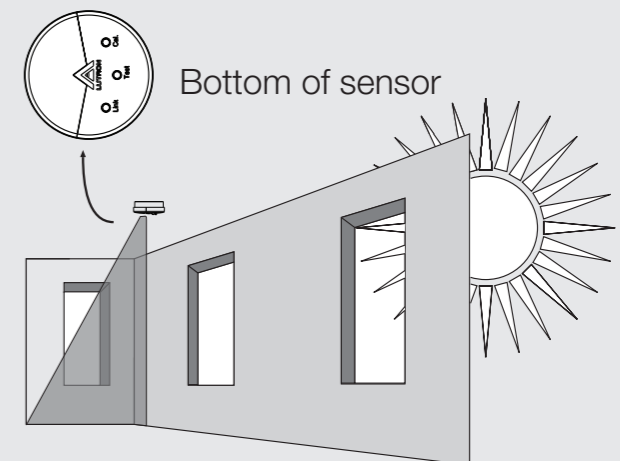
Arrow points towards the area viewed by the sensor (towards windows).



**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  
Additional setup support services

**Available setup support services**

**Blocks of setup support time**

- Lutron Services Representatives can support the installation team in setting up the system
- Utilise the technician’s time in the way that best suits your needs: training, punch list items, or complete programming independently
- Mix and match 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

**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 utilise and maintain the lighting control assets
- Reduce risk and keep your Installation team small by having Lutron do the setup for you.
- Includes a Commercial System Limited Warranty
- Onsite startup enhancements available

**Product options**

**Setup service models**

**Full scope startup**

LSC-OS-SU-VIVE	Onsite 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





**Operational services**

- Solution training
- System optimisation
- Onsite reconfiguration

**Available Operational Services**

- Support from Lutron to maximise 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**

<b>LSC-TRAINING</b>	Customer-site solution training
<b>LSC-SYSOPT</b>	System optimisation service
<b>LSC-OS-PROG8-EN</b>	8 hours of onsite reconfiguration support
<b>LSC-OS-PROG4-EN</b>	4 hours of onsite reconfiguration support

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](mailto: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**

<b>LSC-B2</b>	Commercial System 2-Year Limited
---------------	-------------------------------------

**Technology Support Plans (TSPs)**

All Lutron Technology Support Plans provide 100% parts and diagnostic labour 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**

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

**Note:** For detailed warranty and technology support plan descriptions see [lutron.com/services](http://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 Labour – First Available Response	• (2 yrs)	•		
Diagnostic Labour – 72-Hour Response			•	
Diagnostic Labour – 24-Hour Response				•
Annual Preventive Maintenance Visit			•	•



Model Number	Description
<b>Vive wireless hub</b>	
HKS-0-FM	Starter Vive wireless hub, flush mount
HKS-1-FM	Standard Vive wireless hub, flush mount
HKS-1-SM	Standard Vive wireless hub, surface mount
HKS-2-FM	Premium Vive wireless hub, flush mount
HKS-2-SM	Premium Vive wireless hub, surface mount
H-MOUNT-SM	Surface Mounting kit for hub
H-MOUNT-FM	Flush mounting kit for hub
VIVE-VUE	Vive Vue license (1 per hub)



<b>PowPak relay module</b>	
RMKS-5R-DV-B	5A relay
RMKS-16R-DV-B	16A relay



<b>PowPak dimming module with 0–10V control</b>	
RMKS-8T-DV-B	Controls up to 30, 0–10V controlled fixtures



<b>PowPak dimming module with DALI control</b>	
RMKS-DAL4-SZ	Controls up to 4 DALI fixtures
RMKS-DAL32-SZ	Controls up to 32 DALI fixtures



<b>PowPak contact closure output module</b>	
RMKS-CCO1-24-B	One contact closure output

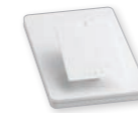


<b>In-line dimmer</b>	
RMKS-250NE	Control for trailing edge capable, 1A / 150W of phase, dimmable LED, and 250W of incandescent, halogen, ELV loads



Model Number	Description
<b>Pico wireless remotes</b>	
PK2-2BRL-TXX-L01	2-button with raise/lower
PK2-2B-TXX-L01	2-button
PK2-3BRL-TXX-L01	3-button with raise/lower
PK2-3B-TXX-L01	3-button
PK2-4B-TXX-L21	4-button with 2 group control
PK2-4B-TXX-L01	4-button with zone control
PK2-4B-TXX-L31	4-button with scene control

(XX in the model number represents colour/finish code)



<b>Pico accessories</b>	
L-PED1-XX	Pico wireless remote single pedestal
L-PED2-XX	Pico wireless remote double pedestal
L-PED3-XX	Pico wireless remote triple pedestal

(XX in the model number represents colour/finish code)

### Pico Colours

- Colours**
- White (AW)
  - Black (BL)





Model Number	Description
<b>Radio Powr Savr occupancy/vacancy sensors*</b>	
LRF3-OCR2B-P-WH	Ceiling-mount, 360° field-of-view, occupancy/vacancy sensor
LRF3-OWLB-P-WH	Wall-mount, 180° field-of-view, occupancy/vacancy sensor
LRF3-OKLB-P-WH	Corner-mount, 90° field-of-view, occupancy/vacancy sensor
LRF3-OHLB-P-WH	Hallway, occupancy/vacancy sensor



Model Number	Description
<b>Radio Powr Savr daylight sensor</b>	
LRF3-DCRB-WH	Ceiling-mount daylight sensor



Model Number	Description
<b>Wallplates*</b>	
LFPF-S1-TXX	Pico 1 column wallplate
LFPF-S1-TXX	Pico 2 column wallplate

\* (XX in the model number represents colour/finish code)



Model number	Description
<b>Vive Startup Services</b>	
LSC-OS-SU-VIVE	Onsite full-scope startup
LSC-AH-SU	After hours startup
LSC-SENS-LT	Sensor layout & tuning
LSC-SPV-DOC	System performance-verification documentation



Model number	Description
<b>Vive Setup Support Services</b>	
LSC-OS-PROG8-SP	Onsite programming — 8-hour block
LSC-OS-PROG4-SP	Onsite programming — 4-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



Model number	Description
<b>Vive Operational Services</b>	
LSC-TRAINING	Customer-site solution training
LSC-SYSOPT	System optimisation service
LSC-OS-PROG8-EN	8 hours of onsite reconfiguration support
LSC-OS-PROG4-EN	4 hours of onsite reconfiguration support

Model number	Description
<b>Vive Limited Warranty and Technology Support Plans</b>	
LSC-B2	Commercial system limited warranty
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

---

Notes

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---



---

For a list of all Vive wireless  
solutions product model numbers  
**[lutron.com/vive-europe](https://lutron.com/vive-europe)**

EUROPEAN HEADQUARTERS  
LUTRON EA LTD.  
4TH FLOOR, 52 LEADENHALL STREET  
LONDON EC3A 2EB, UK

EUROPEAN EXPERIENCE CENTRE AND REGISTERED ADDRESS:  
4TH FLOOR, 125 FINSBURY PAVEMENT  
LONDON EC2A 1NQ, UK

FREEPHONE: 0800 282 107  
TEL: +44 (0) 207 702 0657  
FAX: +44 (0) 207 480 6899  
LUTRONLONDON@LUTRON.COM

© 12/2020 Lutron Electronics Co., Inc. | P/N 367-2597/EA REV P



Follow us on Twitter: [@Lutron\\_EU](https://twitter.com/Lutron_EU)