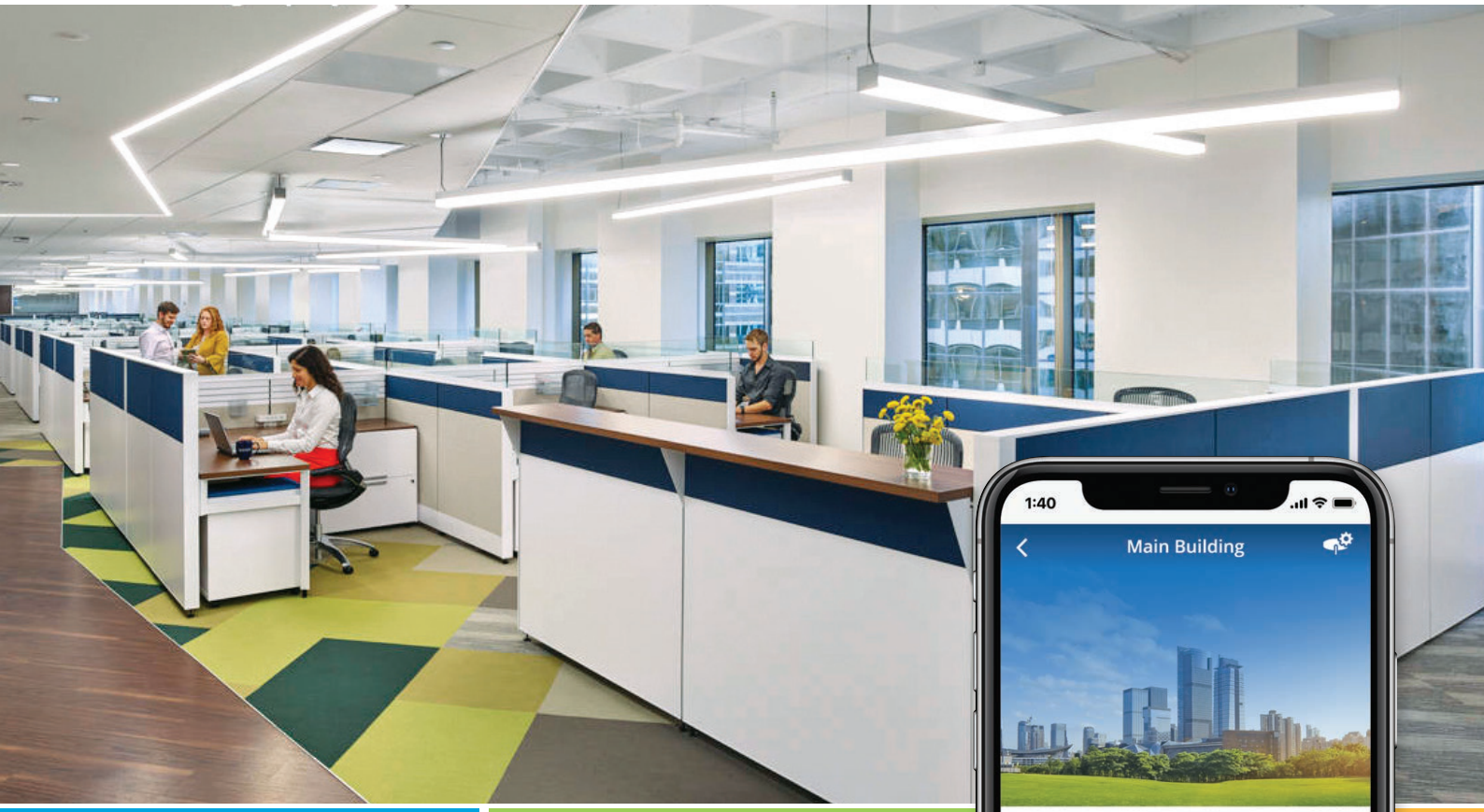
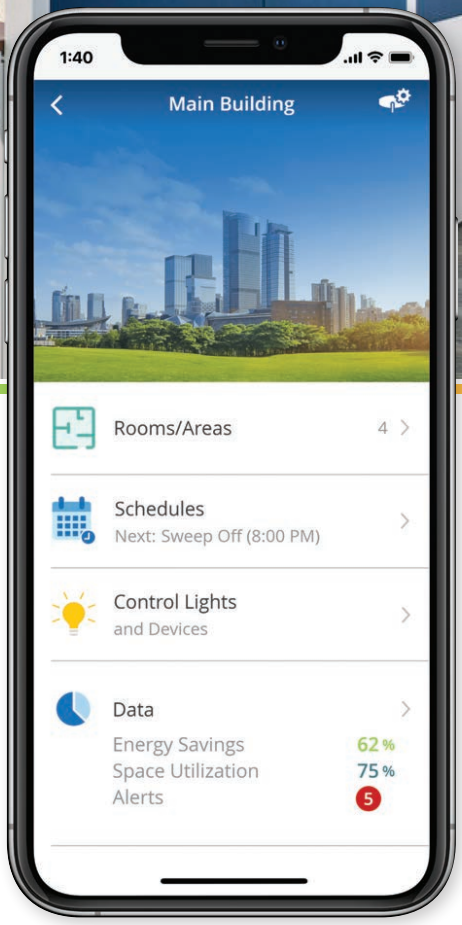
vive

Simple, scalable, wireless

lighting control

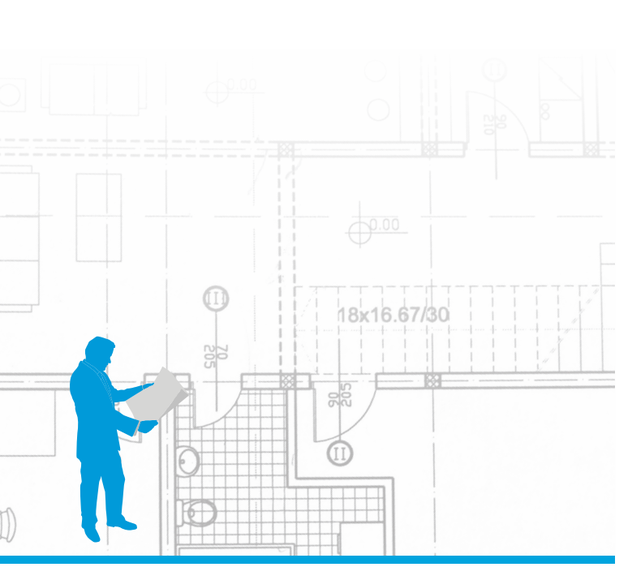




Flexible control every step of the way

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

LUTRON



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, 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%[1]

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

For a list of sources please visit lutron.com/references.

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

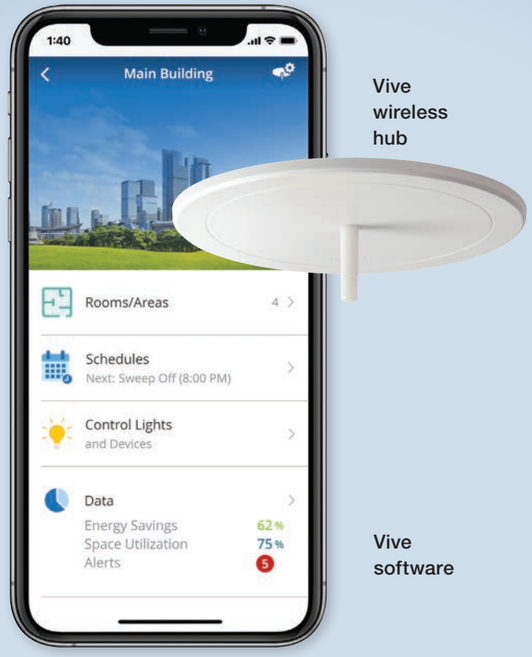
Energy savings — lighting uses more electricity than any other building system. Lutron solutions can save up to 60%[2] or more of that lighting energy

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

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

For a list of sources please visit lutron.com/references.



Vive wireless hub

Vive software

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

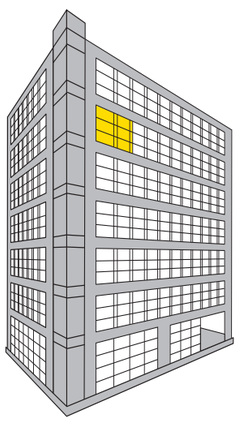
- Any budget
- Area, fixture and sensor controls
- Meet latest building regulations and standards
- No factory setup required

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

Scalable solutions — start small and grow

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

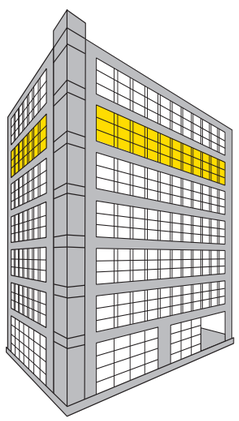
1



Single office space

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

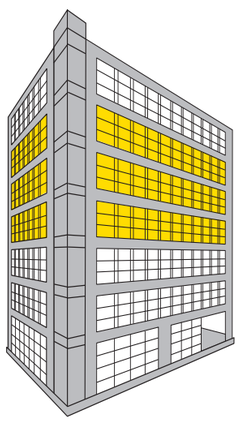
2



Single floor

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

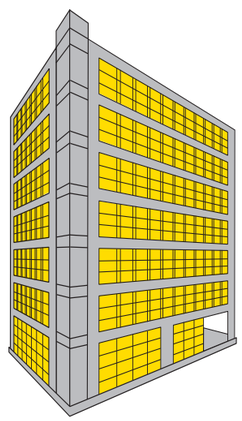
3



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.

4



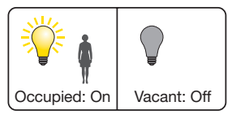
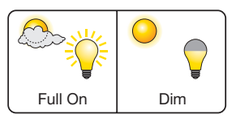
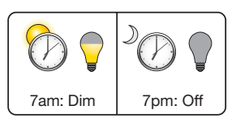
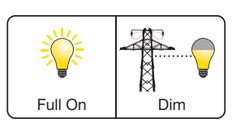
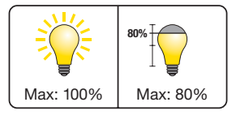
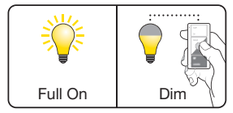
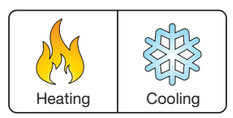
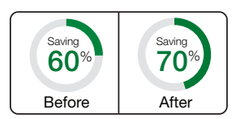
Entire building

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

Energy-saving control strategies

Combine lighting control strategies to maximize efficiency

What is the savings opportunity?
Lutron solutions can save 60%[3] or more lighting energy.

		Potential savings
	**Occupancy/vacancy sensing** turns lights on when occupants are in a space and off when they vacate the space.	20–60% Lighting[4]
	**Daylight harvesting** dims electric lights when daylight is available to light the space.	25–60% Lighting[5]
	**Scheduling** provides pre-programmed changes in light levels based on time of day.	10–20% Lighting[6]
	**Demand response** automatically reduces lighting loads during peak electricity usage times.	30–50% Peak Period[7]
	**High-end trim** sets the maximum light level based on customer requirements in each space.	10–30% Lighting[9]
	**Personal dimming control** gives occupants the ability to adjust the light level.	10–20% Lighting[10]
	**HVAC integration** controls heating, ventilation, and air conditioning systems through contact closure, or BACnet protocol.	5–15% HVAC[11]
	**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

For a list of sources please visit lutron.com/references.

Transform existing buildings with wireless lighting controls

Wireless controls and sensors

Remotes

Occupancy and daylight sensors

Lighting control modules

Add wireless hubs for centralized control and integration (optional)

Vive wireless hub

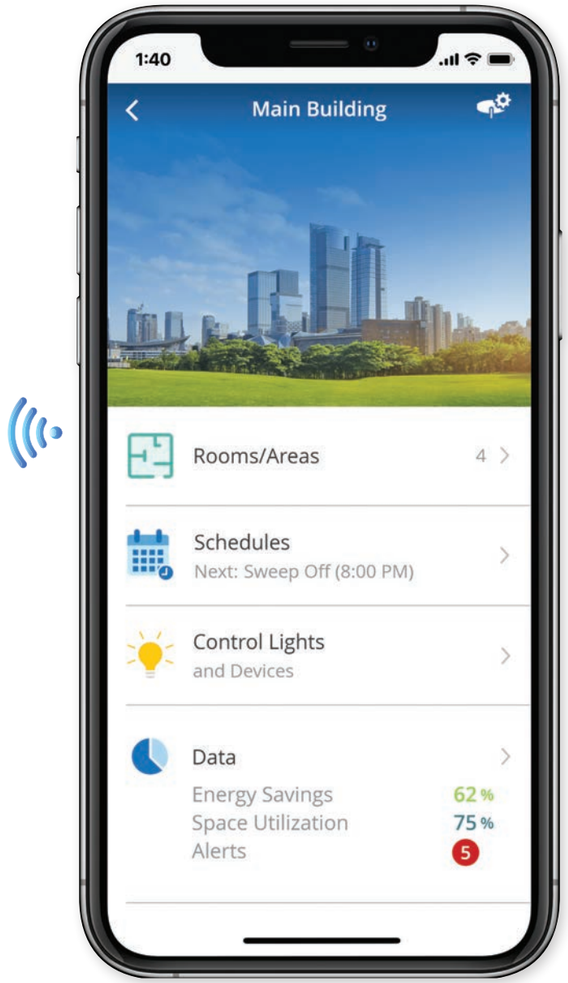
Wired/ Ethernet

Demand response

BACnet integration

API integration

Simple-to-use software



Vive software

Communication protocols

Communicate via RF to control components

Communicate via WiFi to smart devices

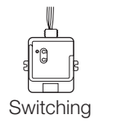
Communicate via wired Ethernet to Vive hub

Area Control

Step 1

Control your loads

- Select the controller appropriate for the loads on your job
- Options available for:
  - switching, 0-10V, DALI, contact closure
- Simply wire one load controller for each group of lights you want to control together



Step 2

Control your lights where you need to

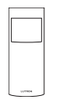
- Wireless devices can be mounted to any surface with no wiring needed
- Controls communicate wirelessly to the controls in the ceiling
- 10 year battery life

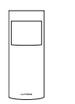
Pico wireless remotes

Step 3

Add sensors to your job

- Occupancy/vacancy sensors turn lights on and/or off for convenience and energy savings
- Wireless devices can be mounted to any surface with no wiring needed
- Controls communicate wirelessly to the controls in the ceiling
- 10 year battery life





Wireless occupancy/ vacancy sensors

Area Control

Step 4

Add daylight harvesting to save energy

- Save energy by dimming the lights when natural light is available
- Wireless devices can be mounted to any surface with no wiring needed
- 10 year battery life

Daylight sensor

Step 5

System software and control (optional)

- Timeclock
- Demand response
- BACnet
- Energy and Occupancy information

See easy programming setup

Vive Software

Simple setup and programming options with the Vive wireless hub

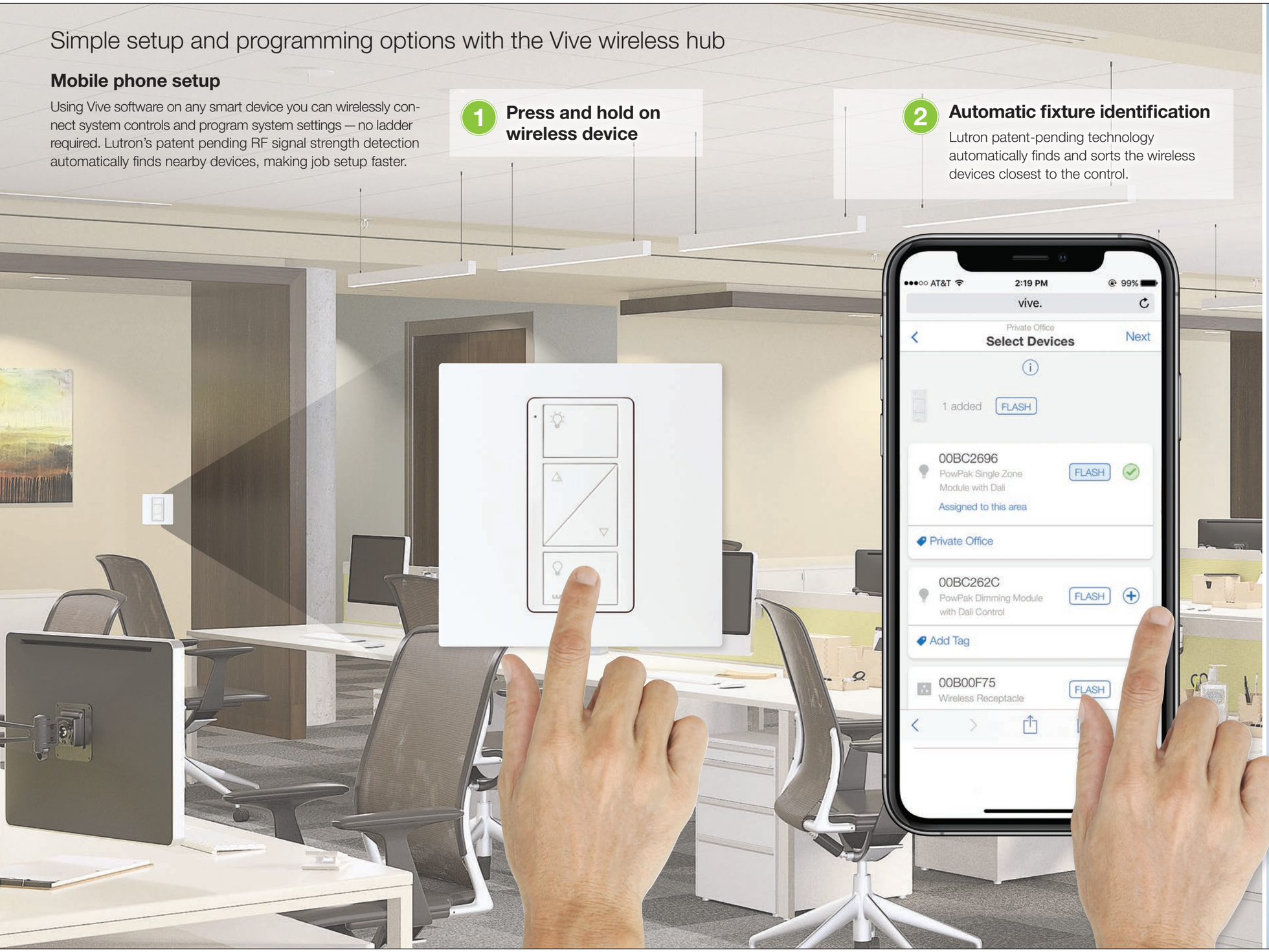
Mobile phone setup

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 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.

PowPak

Press and hold for 6 seconds

Occupancy sensor

Press and hold for 6 seconds

It works! Sensor now talks to the wireless dimmer

Energy savings and space utilization

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

Load shed Open ADR Compatible

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

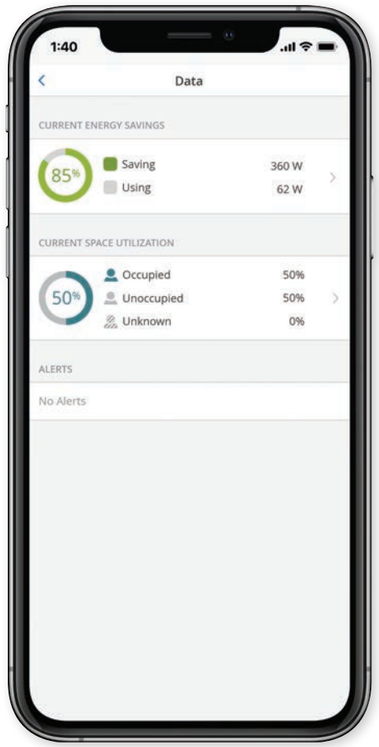
Create and configure scenes to control individual devices, areas, or groups of areas on demand.

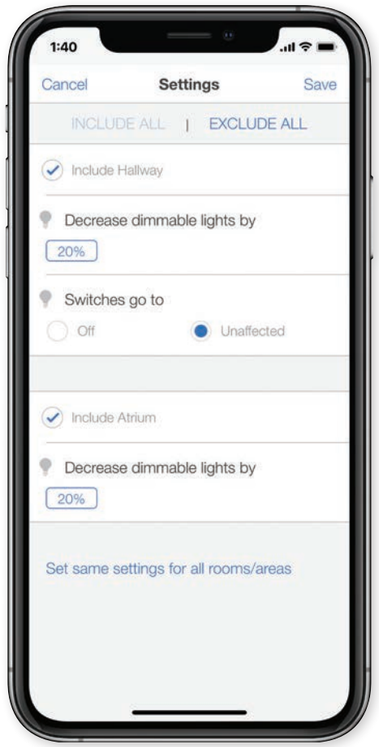
Light Control

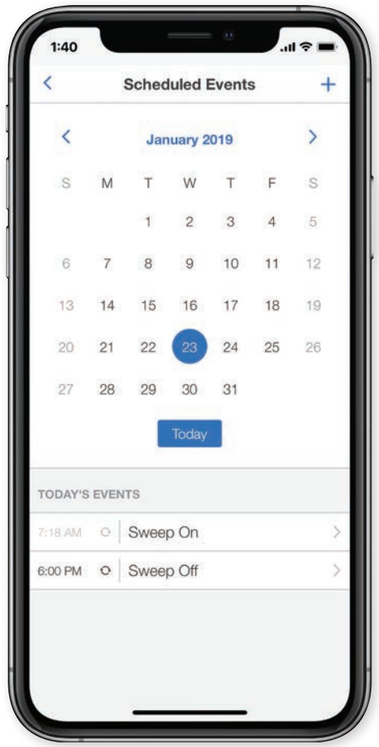
Directly adjust the light levels remotely from any smart device. Easily respond to occupant requests without needing to be in the physical space.

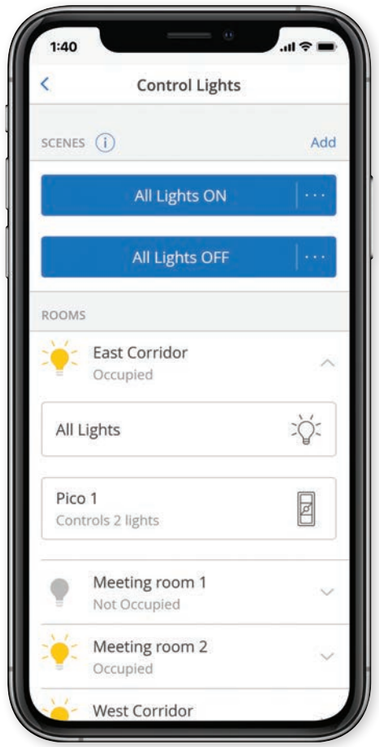
Alerts

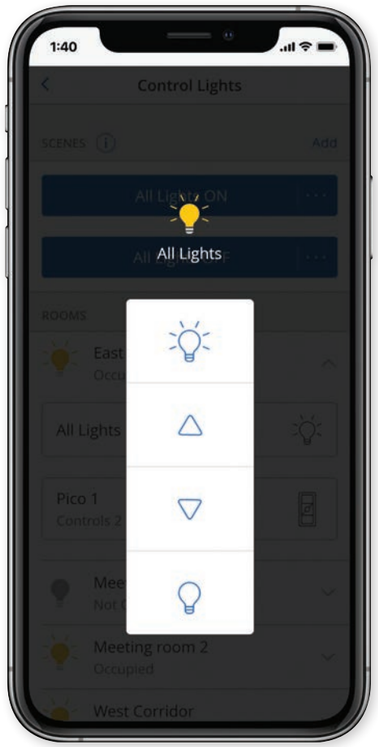
View proactive alerts that show issues such as low batteries or inactive devices to help improve building maintenance efficiency.

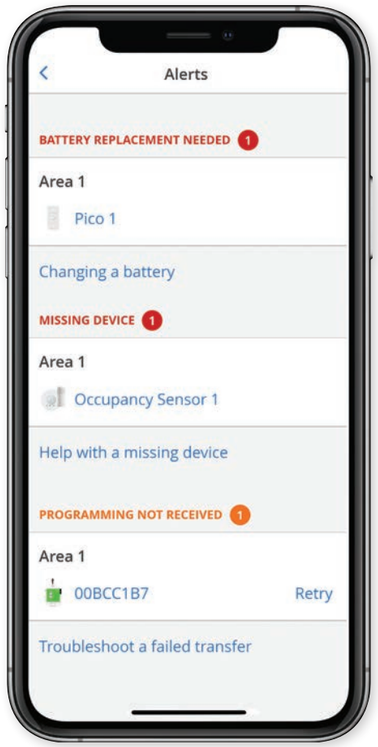












Seamlessly integrate with your building system

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.

Building/Energy Management Systems (BMS/EMS)

Energy Dashboards and Analytics Packages

API

HVAC

Audio & Video

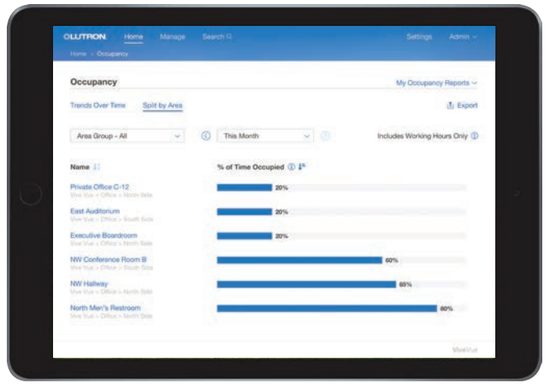
IT

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

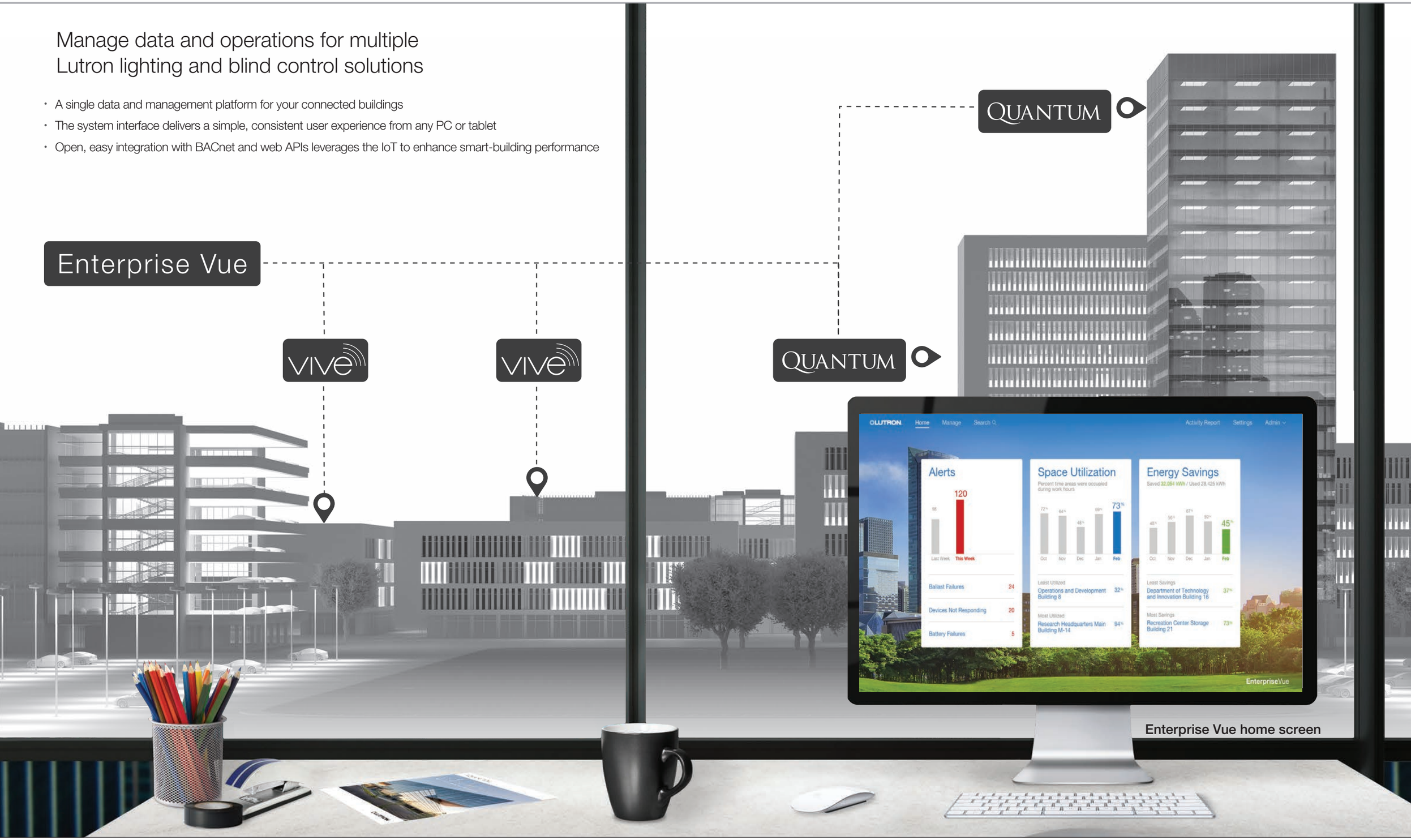
Improve building layout based on actual occupancy and usage information. With space utilization reports, you can quickly identify over-used and under-used spaces to improve building efficiency without expanding the building footprint.

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.

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 home screen

Lutron system security

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 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. 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

Third-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. Third-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

Lutron reliability

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.

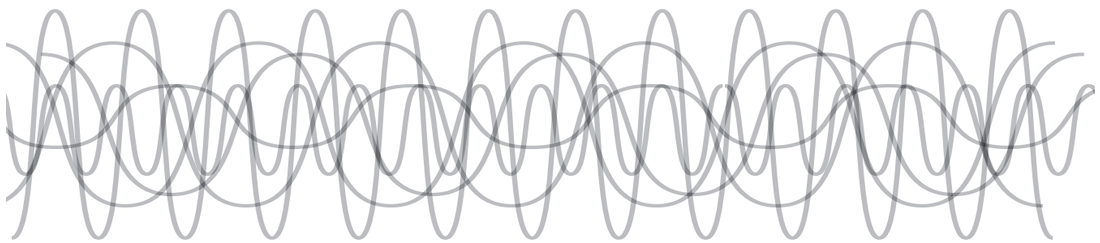
Clear **Connect**

434 MHz: Lutron Clear Connect wireless technology

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

LUTRON Clear Connect® Wireless

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.

Vive Installation
Suncrest Bank — Visalia, California

Wireless hub
page 26

Wireless load controls
page 28

Wireless remotes
page 38

Wireless Sensors
page 42

Vive Wireless hub

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
- Two contact closure inputs to enable load shed from other devices for Title 24 compliance and utility integration
- Open ADR 2.0b compatible for integration with utilities for demand response/loadshed and code compliance
- 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)

HJS-0-FM	Flush mount

Standard

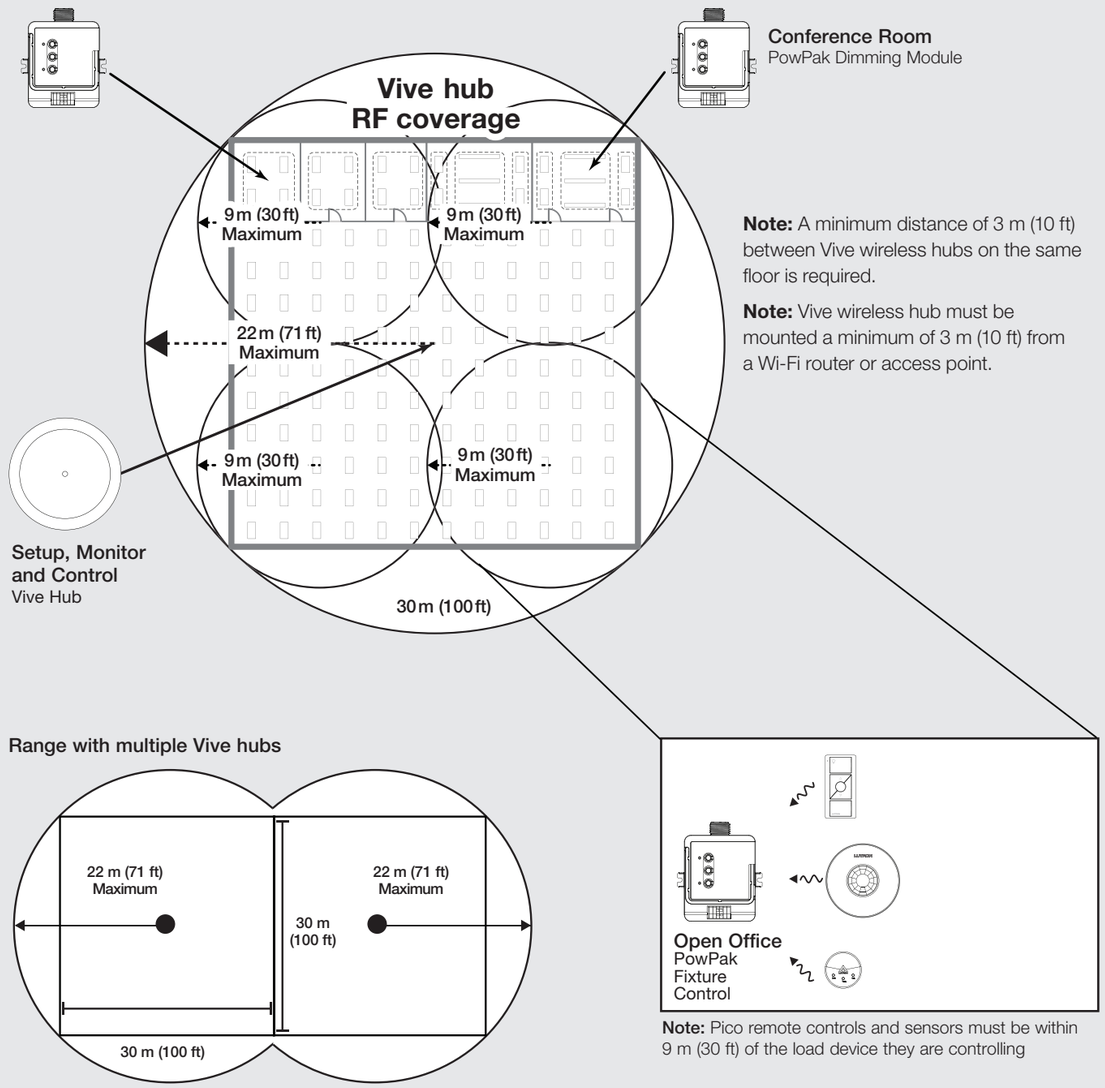
HJS-1-FM	Flush mount
HJS-1-SM	Surface mount
H-MOUNT-SM	Surface-mount installation adapter

Premium (with BACnet)

HJS-2-FM	Flush mount
HJS-2-SM	Surface mount
HJS-UPDATE	Software upgrade license to add BACnet
HJS-DEVICES	Software upgrade license expands device limit to 700 devices

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.



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

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

Note: Pico remote controls and sensors must be within 9 m (30 ft) of the load device they are controlling

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 connect the Vive wireless hub to the corporate network using the Ethernet connection on the hub, and disable the hub's Wi-Fi.

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

  16 A: 1920 W or 1/2 HP @ 120 V or
  4432 W or 1 1/2 HP @ 277 V

  5 A: 600 W or 1/6 HP @ 120 V or
  1385 W or 1/3 HP @ 277 V
- **Contact closure output**
  For sending occupancy information to third-party equipment such as HVAC systems
- **Input** 120/277 V

Product options

16 A models

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

5 A models

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

PowPak single zone EcoSystem/DALI

Dimensions

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

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 single zone controller**
  For each EcoSystem/DALI lighting zone in the space
- **Control**
  EcoSystem/DALI: up to 32 drivers per controller
- Multiple drivers/balasts connected to control module will aways work together as single zone
- **Input** 120/277 V

Product options

EcoSystem single zone

RMJS-ECO32-SZ	

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: 250W: Trailing edge capable, phase dimmable LED, incandescent, halogen, ELV loads
- **Input** 220–240 V~ 50/60 Hz

Product options

In-line dimmer

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

PowPak dimming module with 0-10V control

Dimensions

W: 72mm (2.89")
H: 87mm (3.44")
D: 32mm (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
- **Input** 120/277V
- **0-10V Link:** Communicates with up to 60 mA of fixtures

Product options

8A models with 0-10V control

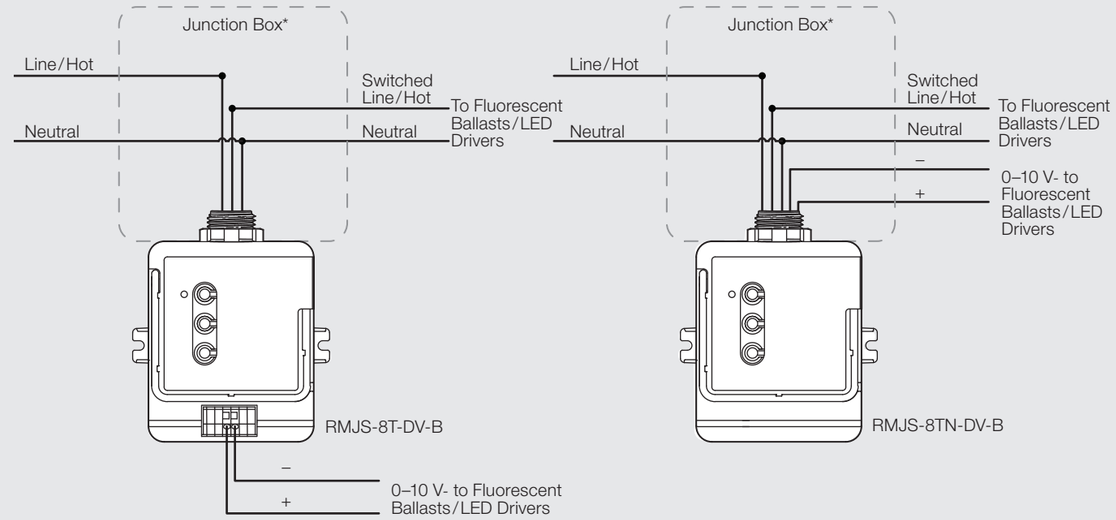
RMJS-8T-DV-B

RMJS-8TN-DV-B

How it works

Two versions of the PowPak 0-10V are available that optimize for different wiring practices. The -8T model has a connector on the back of the box which is optimized for Class 2 wiring outside of the standard conduit. The -8TN model has the 0-10V wires coming out of the threaded end, optimized for wiring inside a junction box and used for when the 0-10V wires are run in the cable or conduit with the Class 1 wiring.Both versions can have the 0-10V control wires be installed using NEC® Class 1 or Class 2 wiring methods.

Wiring Schematic



* **NOTE:** The control module mounts to the exterior of a UK-style junction box.

PowPak contact closure output module

Dimensions

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

How to design and specify

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

Product options

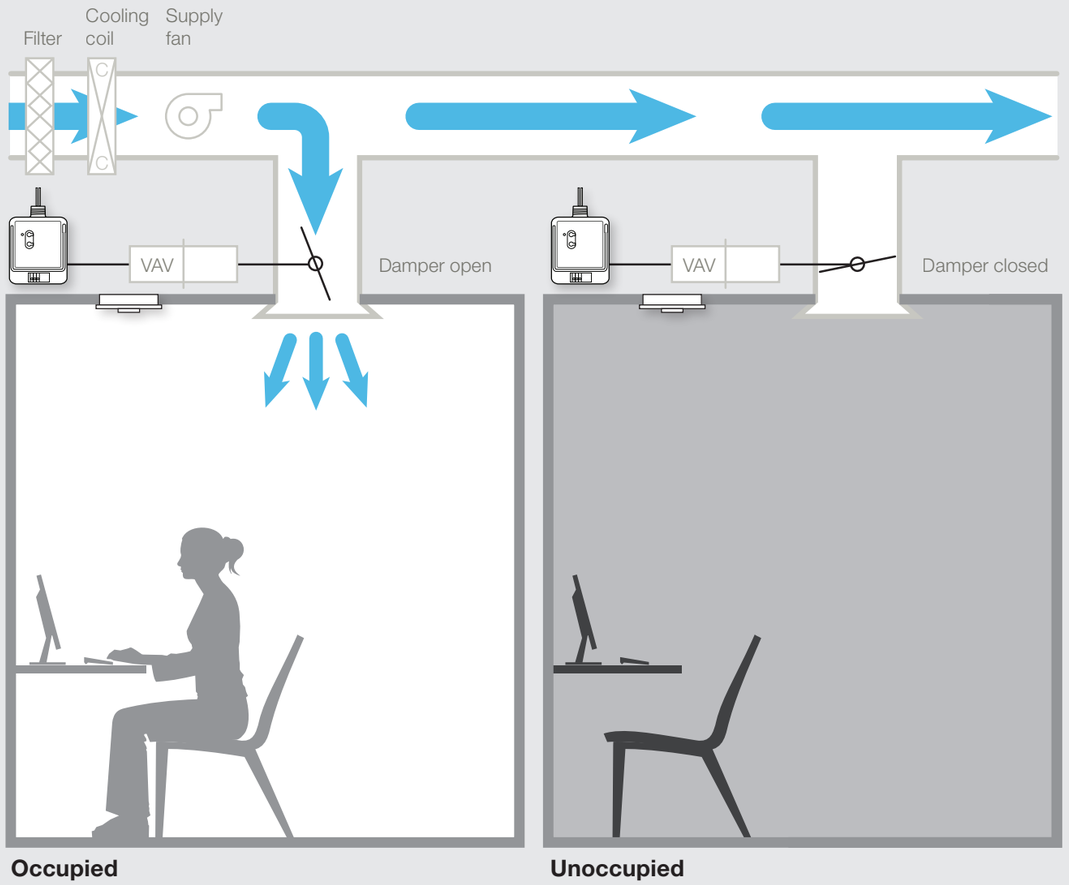
Standard

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.



Occupied **Unoccupied**

Radio Powr Savr occupancy/vacancy sensor (ceiling mount)

PowPak contact closure output module

PowPak relay module

Dimensions

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

How to design and specify

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

Product options

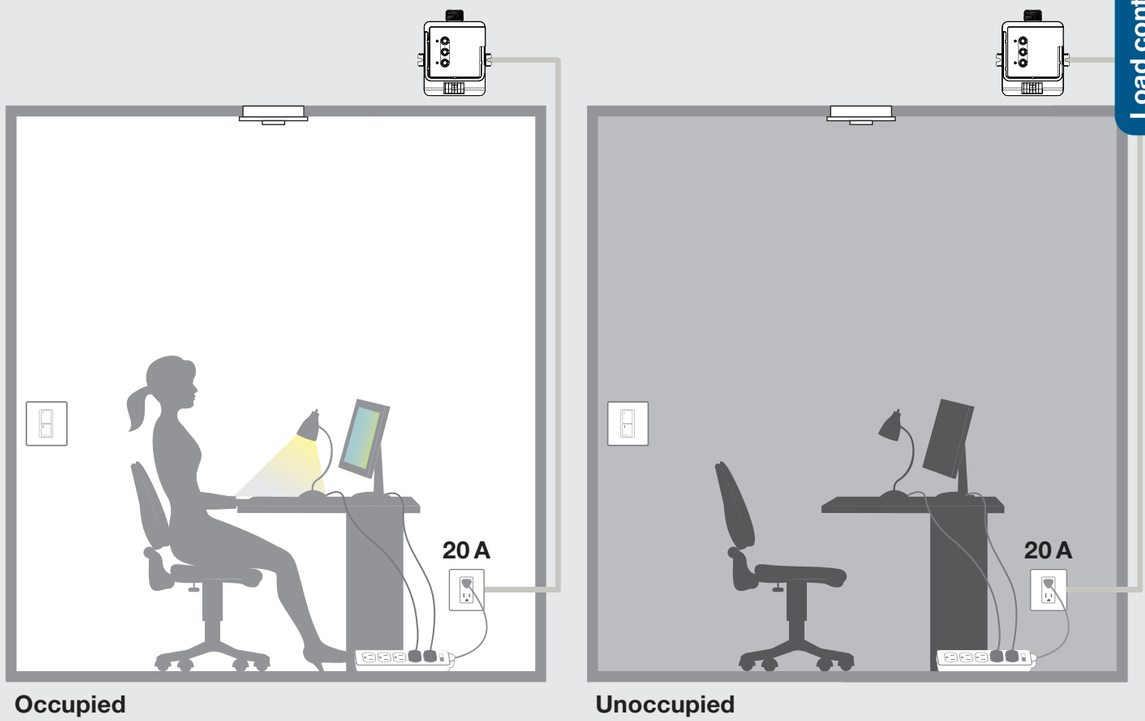
20A models

RMJS-20R-DV-B	General purpose switch 120-277V receptacles
RMJS-20RCCO1-DV-B	General purpose switch 20A, 120-277V 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 usage[3]. 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

For a list of sources please visit lutron.com/references.

Vive Wireless fixture controller

Sensor Dimensions

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

How to design and specify

- **One PowPak wireless fixture contol**
  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

How it works

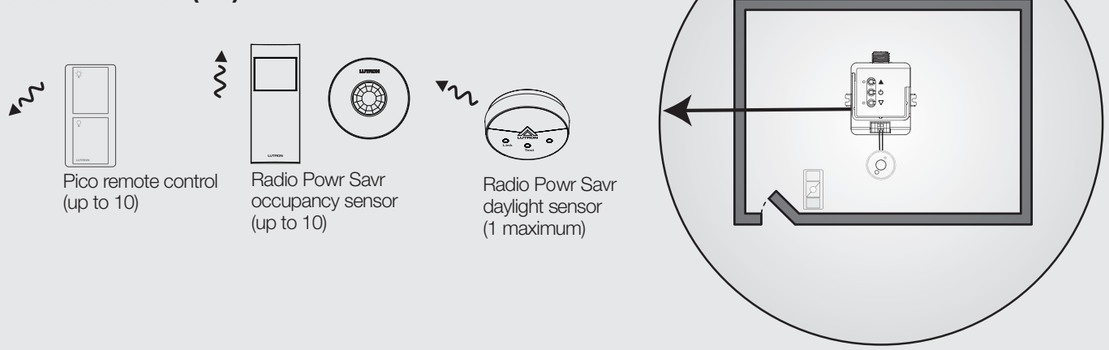
Install the fixture control directly to a fixture or on a junction box nearest to the fixture. Install the sensor on the ceiling near the fixture to optimize coverage in the desired area.

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

Fixture sensor coverage diagrams

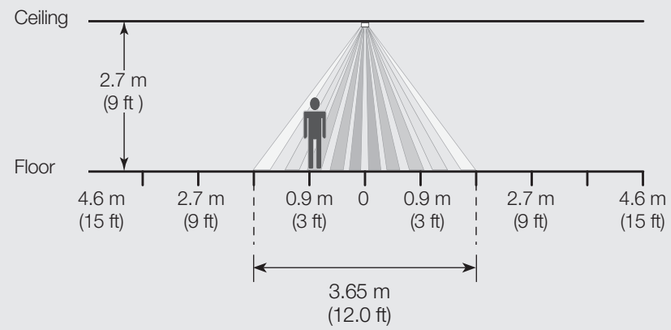
Applies to both products

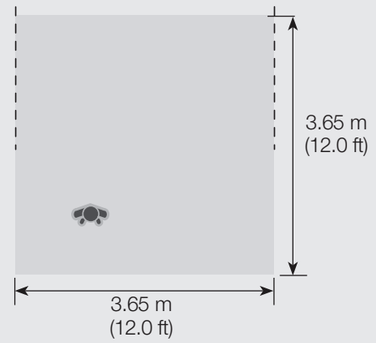
Clear Connect (RF)



XCT Occupancy/Vacancy sensing

Range Diagrams






Pico wireless remotes

3-button with raise/lower

3-button


2-button with raise/lower

2-button

Dimensions

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

PQ2-2BRL-TXX-L01	2-button with raise/lower wireless remote
PQ2-2B-TXX-L01	2-button wireless remote

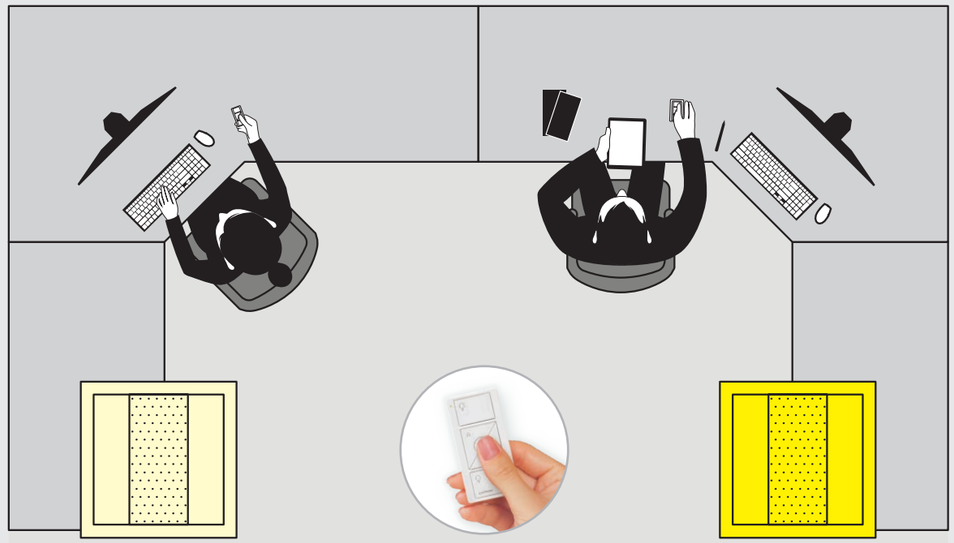
3-button remotes

PQ2-3BRL-TXX-L01	3-button with raise/lower wireless remote
PQ2-3B-TXX-L01	3-button wireless remote

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

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



Dim lights to reduce glare on screen

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

PQ2-4B-TXX-L21P	2-group control
PQ2-4B-TXX-L01	Zone control
PQ2-4B-TXX-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
Blinds	-S01	-ES1
Scene Control		
Lights	-L31	-EL2
Blinds	-S31	-ES2

Tabletop accessories

Wall-mount accessories

Pico wallplate adapter and wallplate

Dimensions

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

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-XX	pedestal for one Pico remote
L-PED2-XX	pedestal for two Pico remotes
L-PED3-XX	pedestal for three Pico remotes

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

LPFP-S1-TXX	International Pico 1 column wallplate
LPFP-S2-TXX	International Pico 2 column wallplate

Wireless occupancy/ vacancy sensors

Dimensions

W: 91 mm (3.57")
H: 91 mm (3.57")
D: 29 mm (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 (8 ft) ceilings: 44.9 m² (484 ft²)
- For 3.7 m (12 ft) ceilings: 62.4 m² (676 ft²)
- 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

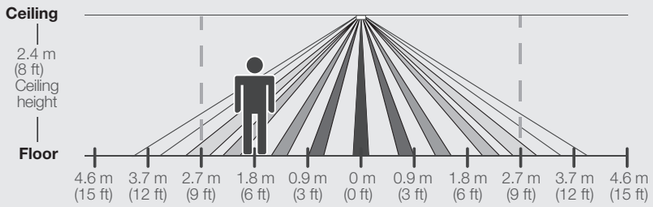
Ceiling-mount sensors

LRF7-OCR2B-P-WH	Occupancy/vacancy

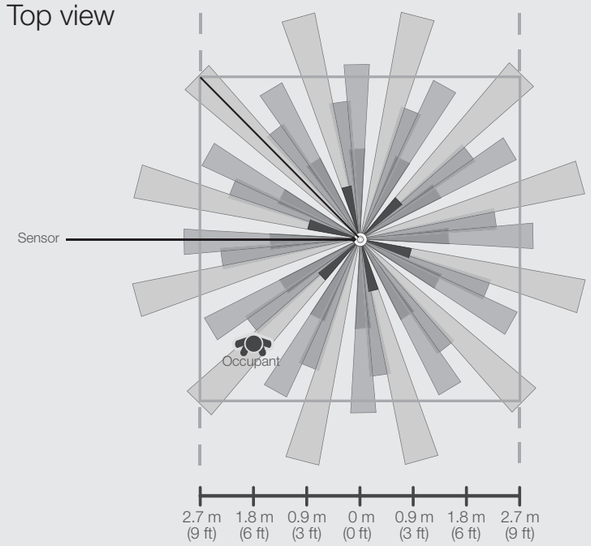
Sensor coverage diagrams

Ceiling mount, 360°

Floor view



Top view



Coverage varies by ceiling height

Key:

Minor motion

Major motion

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 (8 ft)	5.5 x 5.5 m (18 x 18 ft)	30.2 m² (324 ft²)	4.0 m (13 ft)
2.7 m (9 ft)	6.1 x 6.1 m (20 x 20 ft)	37.2 m² (400 ft²)	4.4 m (14.5 ft)
3.0 m (10 ft)	6.7 x 6.7 m (22 x 22 ft)	44.9 m² (484 ft²)	4.9 m (16 ft)
3.7 m (12 ft)**	7.9 x 7.9 m (26 x 26 ft)	62.4 m² (676 ft²)	5.8 m (19 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.

Radio Powr Savr Wireless sensors

Dimensions

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

Flexible armature mounting kit

Dimensions

W: 92 mm (3.62")
H: 55 mm (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 m² (3,000 ft²)

LRF7-OWLB-P-WH	Occupancy/vacancy

Corner-mount sensors

- Use in medium to large open rooms with few tall obstructions
- Coverage: 232 m² (2,500 ft²)

LRF7-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

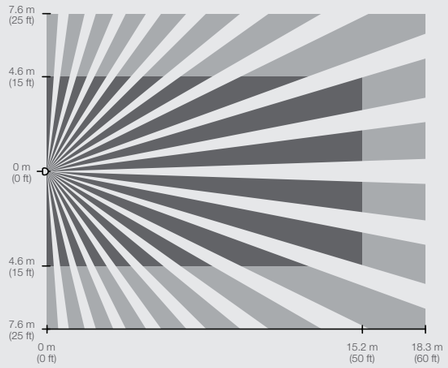
LRF7-OHLB-P-WH	Occupancy/vacancy

Sensor coverage diagrams

Wall mount*, 180°

139.4 m² (1,500 ft²)—minor motion
278.7 m² (3,000 ft²)—major motion

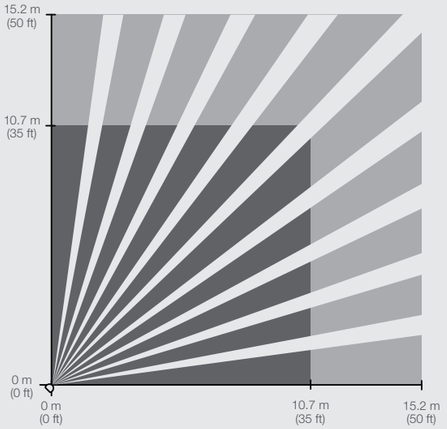
Top view



Corner mount*, 90°

113.8 m² (1,225 ft²)—minor motion
232.3 m² (2,500 ft²)—major motion

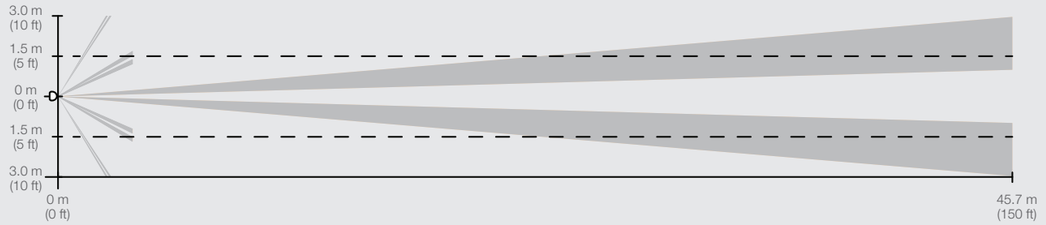
Top view



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 0–10 V control

Product options

Daylight sensor

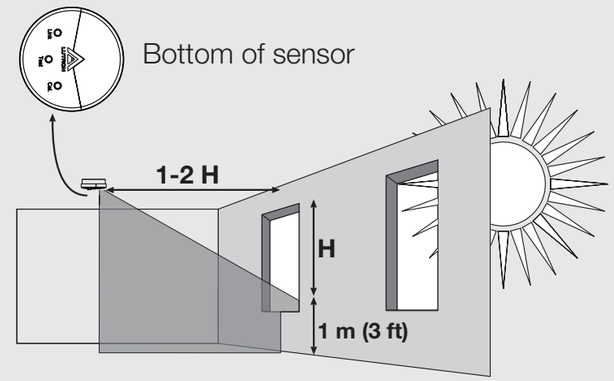
LRF7-DCRB-WH	Daylight sensor

* 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

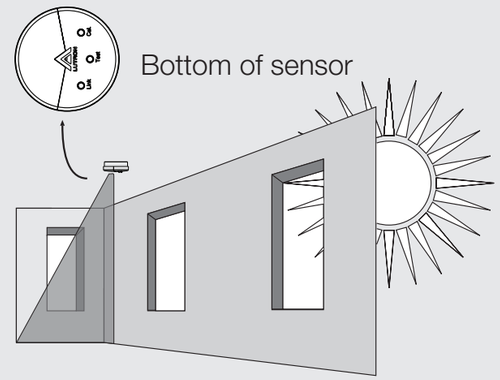
Arrow points towards the area viewed by the sensor (towards windows).



H = Effective Window Height

Location for narrow areas (corridors, private offices)

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



Ordering information

Model Number	Description
Vive wireless hub	
H-MOUNT-SM	Surface-mount installation adapter
HJS-0-FM	Starter Vive wireless hub, flush mount
HJS-1-FM	Standard Vive wireless hub, flush mount
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
HJS-UPDATE	Software upgrade license to add BACnet
HJS-DEVICES	Software upgrade license expands device limit to 700 devices

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

In-line dimmer	
RMQS-250NE	Controls up to 250 W of phase dimmable LED, incandescent, halogen, or ELV loads

PowPak dimming module	
RMJS-8T-DV-B	8A 0-10V controller-connector
RMJS-8TN-DV-B	8A 0-10V controller-flying leads
RMJS-ECO32-SZ	Single zone EcoSystem/DALI controller
PowPak contact closure output module	
RMJS-CCO1-24-B	One contact closure output

Model Number	Description
Individual fixture controller	
FCJS-010	0-10V Control Module
FCJS-ECO	Ecosystem Control Module
FC-SENSOR*	Occupancy/ Daylight Sensor
FC-VSENSOR	Vacancy/ Daylight Sensor

Pico wireless remotes	
PQ2-2BRL-TXX-L01	2-button with raise/lower
PQ2-2B-TXX-L01	2-button
PQ2-3BRL-TXX-L01	3-button with raise/lower
PQ2-3B-TXX-L01	3-button
PQ2-4B-TXX-L21	4-button with 2 group control
PQ2-4B-TXX-L01	4-button with zone control
PQ2-4B-TXX-L31	4-button with scene control

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

Pico accessories	
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)

Ordering Information

Model Number	Description
Radio Powr Savr occupancy/vacancy sensors*	
LRF7-OCR2B-P-WH	Ceiling-mount, 360° field-of-view, occupancy/vacancy sensor
LRF7-OWLB-P-WH	Wall-mount, 180° field-of-view, occupancy/vacancy sensor
LRF7-OKLB-P-WH	Corner-mount, 90° field-of-view, occupancy/vacancy sensor
LRF7-OHLB-P-WH	Hallway, occupancy/vacancy sensor
Radio Powr Savr daylight sensor	
LRF7-DCRB-WH	Ceiling-mount daylight sensor
Wallplates*	
LPFP-S1-TXX	Pico 1 column wallplate
LPFP-S1-TXX	Pico 2 column wallplate

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

Notes

Notes

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

Questions?
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