

# Vive Hub

Installation Instructions  
Please Read Before Installing

**Power Supply (PS-K-20W-240):**  
Input: 220–240 V~ 50/60 Hz 0.6 A  
Output: 24 V== 830 mA

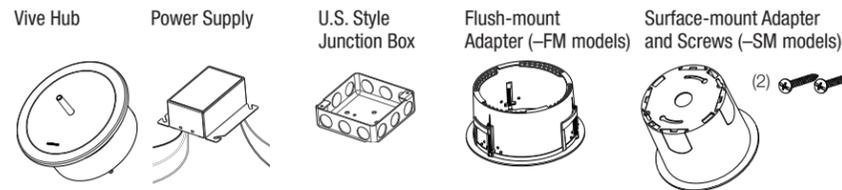
P/N 041637  
Rev A

**Vive Hub (HKS-):** 24-36 V== 350 mA

English

Model Numbers	Description	Replacement Parts	Description
HKS-0-FM	Starter hub, flush-mount adapter and power supply	PS-K-20W-240	Vive hub external power supply
HKS-1-FM	Vive hub, flush-mount adapter and power supply	H-MOUNT-FM	Flush-mount installation bracket
HKS-1-SM	Vive hub, surface-mount adapter and power supply	H-MOUNT-SM	Surface-mount installation bracket
HKS-2-FM	Premium Vive hub, flush-mount adapter and power supply		
HKS-2-SM	Premium Vive hub, surface-mount adapter and power supply		

## Included Components



## Important Notes

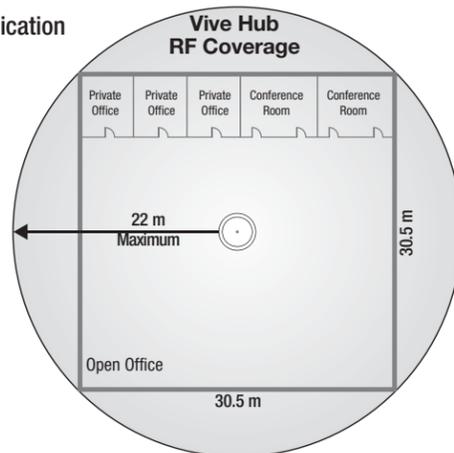
### General

- For installation by a qualified electrician in accordance with all local electrical codes.
- Install the Vive hub where the button and terminal block/wires are not accessible to users in the space.
- The primary branch circuit must be protected by a 10 A or 16 A breaker (as applicable).
- The primary wiring must be 1.0 mm<sup>2</sup> to 2.5 mm<sup>2</sup> (18 AWG to 14 AWG) and rated for at least 75 °C.
- If moisture or condensation is evident, allow the product to dry completely before installation.
- Operate between 0 °C and 40 °C.
- 0% to 90% humidity, non-condensing.
- For indoor use only.

### Vive Hub

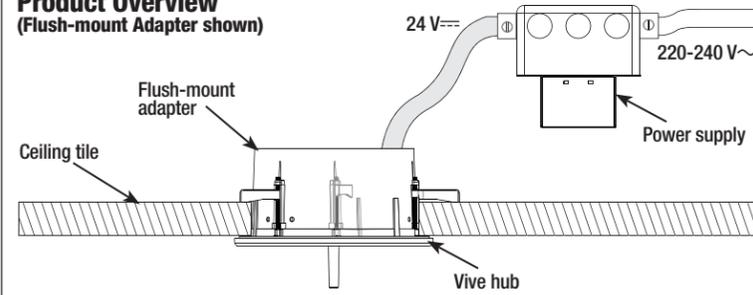
- Lutron recommends that the Vive hub not be installed above ceiling tiles with a metal backing.
- Clean the Vive hub with a soft damp cloth only. DO NOT use any chemical cleaners.
- DO NOT paint the Vive hub.
- The Vive hub is part of a system and cannot be used to control a load without a compatible system device. Please refer to the system device(s) instruction sheet or [www.lutron.com](http://www.lutron.com) for installation information.
- HKS-1, HKS-2 support up to 700 Lutron Wireless devices. HKS-0 supports 75 Lutron Wireless devices. Devices must be located within 22 m of the Vive hub.
- Vive hub units should be mounted in the middle of a non-metal ceiling tile or drywall, visible from the inside of the space.
- Metal ceilings must have a ≥3 mm gap of non-metal material which extends the entire length of the tile on at least one edge. This is often achieved by foam spacers that are used to prevent tile-to-tile rattling.
- Metal ceilings which are continuous (with no gap) or those that are interlocked, must have a total surface area that is less than 81 m<sup>2</sup> for each section. The overall space can be larger as long as there are non-metal sections bordering or intersecting the metal sections.
- All wireless devices must be within 22 m of the Vive hub. This range applies to both Clear Connect devices and Wi-Fi.
- A corporate Wi-Fi network can interfere with the Wi-Fi on the Vive hub. Where a corporate Wi-Fi network exists, it is recommended to connect the Vive hub to the corporate network using the Ethernet connection on the hub and disable the hub's Wi-Fi.
- Must be mounted a minimum of 3 m away from Wi-Fi router.

## Typical Application



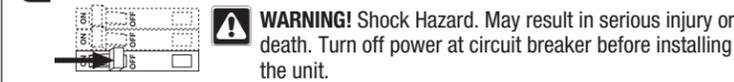
## Instructions

### Product Overview (Flush-mount Adapter shown)



## Installation

### 1 Turn OFF power at circuit breaker.



### 2 Installing the Mounting Adapter

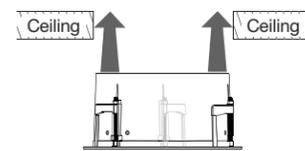
The Vive hub can be mounted on a variety of ceiling materials (thickness ranging from 6 mm to 32 mm) with the mounting bracket provided.

#### Flush-mount adapter

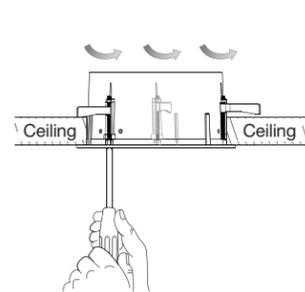
A. Cut a 153 mm diameter mounting hole in the ceiling to insert the mounting bracket. Please refer to the **Vive Hub Flush-Mount Bracket Template**.



B. Insert the flush-mount Adapter into the hole and rotate the three brackets outwards by turning screws.



C. Using a Phillips head screwdriver, hand-tighten the brackets, clamping the adapter to the ceiling. DO NOT overtighten.



#### Surface-mount adapter

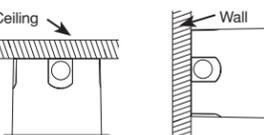
A. Remove installed doors to access the optional conduit knockouts. The knockouts provide a connection point for conduit.



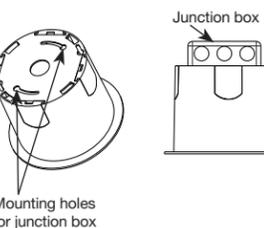
Attach the surface-mount adapter to the wall or ceiling using the included screws or appropriate screws that will securely mount the device.



Note: The provided screws may not be suitable for your application.



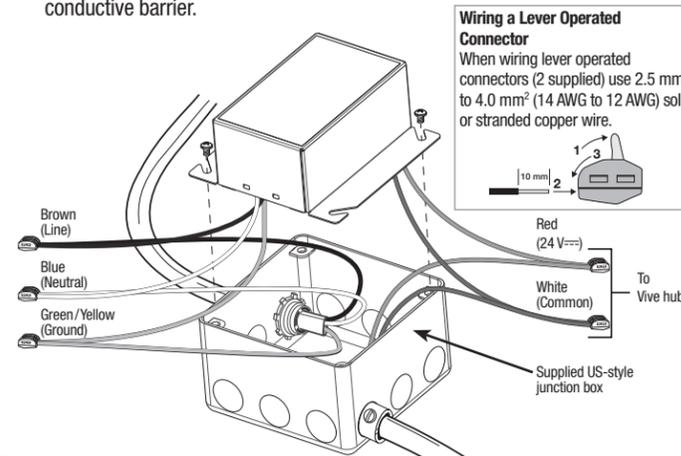
B. Alternate installation methods: Attach the surface-mount adapter to a Lutron-supplied US-style 101.6 mm x 101.6 mm junction box



### 3 Wiring

#### A. Power Supply

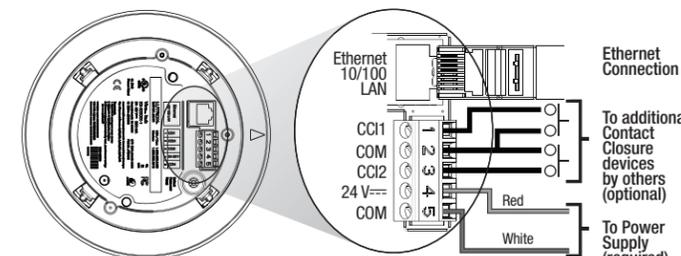
- Ground the junction box in accordance with local codes.
- Mount the power supply to a Lutron-supplied US-style 101.6 mm x 101.6 mm junction box. The power supply must be mounted within 30 m of the Vive hub.
- Make wiring connections as shown.  
Note: Maintain separation of the power supply PELV output wiring from all other conductors by a minimum of 6.4 mm or by a non-conductive sleeve or non-conductive barrier.



#### B. Vive Hub

- Run the low-voltage wiring from the power supply to the Vive hub. Most applications will require an additional length of wire to connect the junction box with the Vive hub. Wiring should be 0.2 mm<sup>2</sup> to 2.5 mm<sup>2</sup> (24 AWG to 12 AWG).
- Wire the Vive hub terminal block. Contact Closure Input 1 (CCI1) is programmed by default to activate load shed. Closing this input will shed the lighting load by 20% for connected Vive compatible lighting devices.

Note: Terminal blocks are removable for ease of wiring.  
Note: Contact Closure Input 2 (CCI2) is for future release functionality.



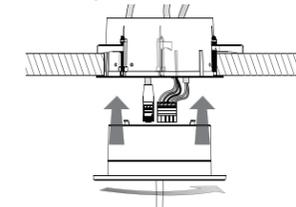
- Connect the Ethernet cable to connect to Building Management Systems, wired networks, and other Vive hubs.

### 4 Attaching the Vive Hub to the Adapter

Note: Prior to installing the hub, record the Wi-Fi SSID printed on the label. Attach the Vive hub into the ceiling-mount adapter by inserting and twisting in a clockwise direction until the hub locks into place.

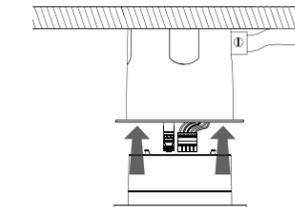
#### Flush-mount adapter

Twist Vive hub until ratcheted flush with ceiling.



#### Surface-mount adapter

Twist Vive hub until hub clicks into place.



### 5 Turn ON power at circuit breaker.

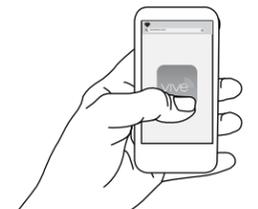
### 6 Programming

The Vive hub can be set-up easily with any Wi-Fi enabled iOS or Android compatible device.

- Download the Lutron Vive app.



- Open the app and follow the instructions.



## LED Feedback

Mode / Error	LED Pattern Description
Normal Operation	Blinks White once every 10 seconds
Software update	Blinks alternately between Blue and White
Reset to factory defaults	Blinks alternately between Green and Amber
Recovery	Solid Blue

## Troubleshooting [www.lutron.com/vive](http://www.lutron.com/vive)

Symptom	Possible Solutions
Forgot password	<ul style="list-style-type: none"> <li>Hold the button on the back of the Vive hub for 20 seconds or until the LED flashes white.</li> </ul>
Cannot connect over Wi-Fi	<ul style="list-style-type: none"> <li>Move closer to the Vive hub.</li> <li>Verify that the power is connected to the hub.</li> <li>Check Wi-Fi settings on the smart device.</li> <li>Connect over the Ethernet and verify that the Wi-Fi is enabled on the hub (see Wi-Fi settings).</li> </ul>
Cannot connect over Ethernet	<ul style="list-style-type: none"> <li>Verify that the power is connected to the Vive hub.</li> <li>Verify that the wired Ethernet is connected properly.</li> <li>Verify that the Ethernet cable is less than 100 m in length.</li> </ul>
LED is Off	<ul style="list-style-type: none"> <li>Verify that the power is connected to the Vive hub.</li> <li>LED should blink once every 10 seconds if the Vive hub is powered properly.</li> </ul>
LED is red	<ul style="list-style-type: none"> <li>Contact Lutron only if maintained more than 30 seconds or occurs periodically.</li> </ul>
LED is blue	<ul style="list-style-type: none"> <li>Contact Lutron.</li> </ul>
External events (such as Automatic Demand Response) are not triggering	<ul style="list-style-type: none"> <li>Verify the contact closure input 1 is connected.</li> <li>Check the programming for contact closure inputs.</li> </ul>

Hereby, Lutron Electronics Co. Inc declares that the radio equipment type HKS-0-FM, HKS-1-FM, HKS-1-SM, HKS-2-FM, HKS-2-SM, and PS-K-20W-240 are in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: [lutron.com/cedoc](http://lutron.com/cedoc)