

Vive Hub

P/N 041793

Rev A

Power Supply (PS-M-20W-240):

Input: 220–240 V~ 50/60 Hz 0.6 A

Output: 24 V== 830 mA

Vive Hub (HMS-): 24–36 V== 350 mA

English

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

Included Components

Vive Hub

Power Supply

U.S. Style Junction Box (optional)

Flush-mount Adapter (–FM models)

Surface-mount Adapter and Screws (H-MOUNT-SM)

Important Notes

General

1. For installation by a qualified electrician in accordance with all local electrical codes.

2. Install the Vive hub where the button and terminal block/wires are not accessible to users in the space.

3. The primary branch circuit must be protected by a 10 A or 16 A breaker (as applicable).

4. The primary wiring must be 1.0 mm² to 2.5 mm² (18 AWG to 14 AWG) and rated for at least 75 °C.

5. If moisture or condensation is evident, allow the product to dry completely before installation.

6. Operate between 0 °C and 40 °C.

7. 0% to 90% humidity, non-condensing.

8. For indoor use only.

Vive Hub

1. Lutron recommends that the Vive hub not be installed above ceiling tiles with a metal backing.

2. Clean the Vive hub with a soft damp cloth only. DO NOT use any chemical cleaners.

3. DO NOT paint the Vive hub.

4. 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.

5. HMS-1, HMS-2 support up to 700 Lutron Wireless devices. HMS-0 supports 75 Lutron Wireless devices. Devices must be located within 22 m of the Vive hub.

6. Vive hub units should be mounted in the middle of a non-metal ceiling tile or drywall, visible from the inside of the space.

7. Metal ceiling tile grids 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.

8. Metal ceiling tile grids which are continuous (with no gap) or those that are interlocked, must have a total surface area that is less than 81 m² for each section. The overall space can be larger as long as there are non-metal sections bordering or intersecting the metal sections.

9. All wireless devices must be within 22 m of the Vive hub. This range applies to both Clear Connect devices and Wi-Fi.

10. 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.

11. Must be mounted a minimum of 3 m away from Wi-Fi router.

Typical Application

LUTRON

Lutron GL Ltd | 15 Hoe Chiang Road  
#07-03 – Tower Fifteen | Singapore 089316

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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 ceiling to insert the mounting bracket. 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.

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

3 Wiring

A. Power Supply

1. Ground the junction box in accordance with local codes.

2. 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.

3. 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

1. 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 mm² to 2.5 mm² (24 AWG to 12 AWG).

2. Wire the Vive hub terminal block. Contact Closure Input 1 (CCI1) is programmed by default to activate load shedding. Closing this input will reduce the lighting load by 20% for connected Vive compatible lighting devices. Contact Closure Input 2 (CCI2) is programmed by default to have no effect. CCI2 can be configured during programming.  
**Note:** Terminal blocks are removable for ease of wiring.

3. 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, write down 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 smart phone or tablet. No special app is required.

a. Open the Wi-Fi settings on a smart device.

b. Select the Wi-Fi SSID (Wi-Fi network name) as shown on the Vive hub label.

c. Open a browser (*Safari*, *Chrome*) and type [vive.lutron.com](http://vive.lutron.com) into address bar.

d. Follow the instructions on the screen of your smart device to set up the system.

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>

Technical Notes

1. Frequency Band - Range for Clear Connect as well as Wi-Fi:

- a. Clear Connect - 868.125 MHz–868.475 MHz
- b. Wi-Fi - 2412 MHz–2462 MHz or 2.412 GHz–2.462 GHz

2. Transmitted power - Declared power for Clear Connect and Wi-Fi (in mW):

- a. Clear Connect - 5 mW
- b. Wi-Fi - 32 mW

3. Occupied bandwidth:

- a. Clear Connect - Less than 250 KHz
- b. Wi-Fi - 20 MHz - at max data rate 4

4. Modulation system:

- a. Clear Connect - FSK - Frequency Shift Keyed
- b. Wi-Fi
  - i. BPSK - Binary Phase Shift Keying
  - ii. QPSK - Quadrature Phase Shift Keying
  - iii. 16-QAM - 16 Quadrature Amplitude Modulation
  - iv. 64-QAM - 64 Quadrature Amplitude Modulation
  - v. LOFDM - Lattice Orthogonal Frequency Division Multiplexing

**Limited Warranty:**  
[www.lutron.com/en-US/ResourceLibrary/warranty/Limited%20Comm.pdf](http://www.lutron.com/en-US/ResourceLibrary/warranty/Limited%20Comm.pdf)

**Customer Assistance:**  
China: +86.21.61650990  
Others: +1.610.282.3800  
[www.lutron.com/support](http://www.lutron.com/support)

# Vive主机

安装说明书

安装前请务必阅读

文档编号 041793

版本 A

电源 (PS-M-20W-240):

输入: 220-240 V~ 50/60 Hz 0.6 A

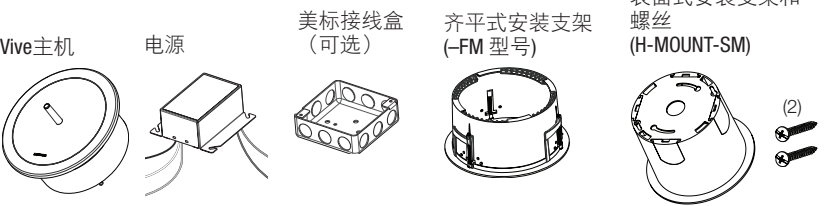
输出: 24 V== 830 mA

Vive主机 (HMS-): 24-36 V== 350 mA

中文

型号	品名	替换件	品名
HMS-0-FM	入门版Vive主机, 齐平式安装支架,电源	PS-M-20W-240	Vive主机外接电源
HMS-1-FM	标准版Vive主机, 齐平式安装支架,电源	H-MOUNT-FM	齐平式安装支架
HMS-2-FM	高级版Vive主机, 齐平式安装支架,电源	H-MOUNT-SM	表面式安装支架

## 包含配件

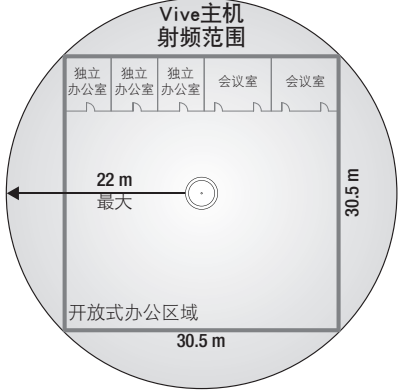


## 注意事项:

- 概述
- 须具有合格资质的电工根据当地电气规范进行安装。
  - 安装Vive主机时注意不可将按钮与接线盒/接线端口暴露于空间内用户可触及处。
  - 主要分支电路必须由一个10 A-16 A的断路器进行保护（如适用）。
  - 主线路线径必须是1.0 mm<sup>2</sup> -2.5 mm<sup>2</sup> (18 AWG - 14 AWG) 同时需要耐温75 °C以上。
  - 如遇明显受潮或冷凝状况，待产品完全干燥后进行安装。
  - 工作环境温度0 °C -40 °C。
  - 允许湿度0% - 90%，无冷凝。
  - 仅用于室内。

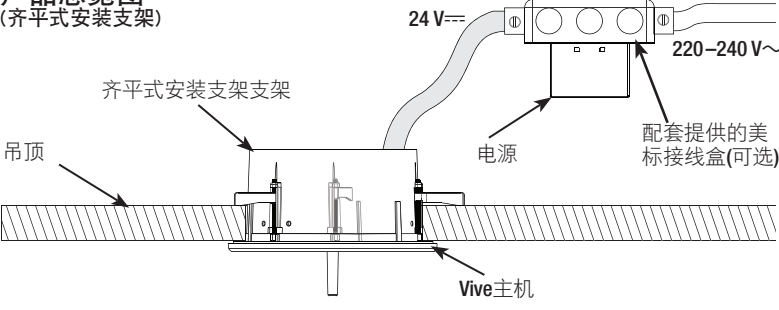
- Vive主机
- 路创建议勿将Vive主机安装于有金属衬板的吊顶板之上。
  - 使用柔软湿布擦拭Vive主机。切勿使用任何化学清洗剂。
  - Vive主机禁止上漆。
  - Vive主机是系统的组成部分，在没有兼容系统装置情况下，不可用于控制负载。相关安装信息请参照系统装置介绍或路创网站www.lutron.com。
  - HMS-1, HMS-2 可支持700个路创无线设备。HMS-0 可支持75个路创无线设备。所有设备必须安装在Vive主机22 m 范围内。
  - Vive主机须安装于非金属吊顶板或干墙中间处并处于可见位置。
  - 金属吊顶板至少有一侧必须有 ≥3 mm非金属接缝材料，通常可使用泡沫条以避免金属板之间的挤压干扰。
  - 无缝式金属吊顶或互锁式金属吊顶，单块面积不得超过81 m<sup>2</sup>。若有非金属材料进行镶边或与非金属材料交叉安装，则整体区域可大于81 m<sup>2</sup>。
  - 所有无线设备必须安装在Vive主机22 m范围内。该范围标准同时适用于Clear Connect设备及Wi-Fi。
  - 公司Wi-Fi网络与Vive主机自带Wi-Fi可能互相干扰。当有公司Wi-Fi网络时，建议用Vive主机通过以太网方式将主机连接至公司网络，并关闭主机的Wi-Fi功能。
  - 必须安装在Wi-Fi路由器3 m范围以外。

## 典型应用



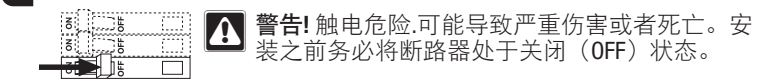
## 安装图示

### 产品总览图 (齐平式安装支架)



## 安装

### 1 将断路器处于关闭(OFF)状态。

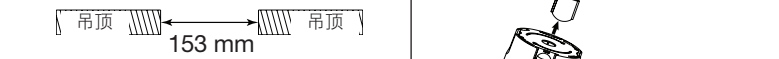


### 2 支架的安装

使用配套提供的安装托架，Vive主机可以安装于多种类型的吊顶上(厚度6 mm-32 mm)。

#### 齐平式安装支架

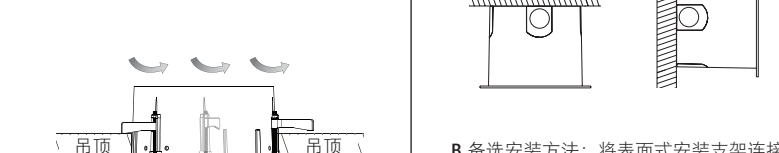
- A.在吊顶上切割出一个直径为153 mm的孔然后装入安装托架。请参照Vive主机齐平式安装托架模板。



- B.将齐平式安装支架嵌入所切割出的孔中，通过转动螺丝将三个卡口旋转至向外的方向。

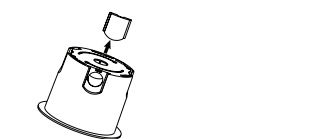


- C.使用十字螺丝刀，手动拧紧三个卡口将安装支架固定在吊顶上。切勿过紧。

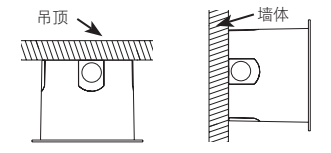
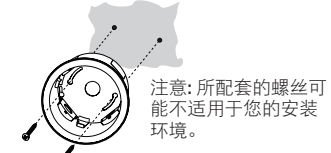


#### 表面式安装支架

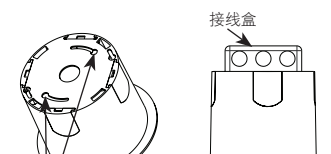
- A.打开敲落孔盖板。敲落孔是导管的连接点。



用配套的螺丝或其他适用的螺丝将表面式安装支架装于墙体或吊顶上。请选用合适的螺丝以确保稳固安装。



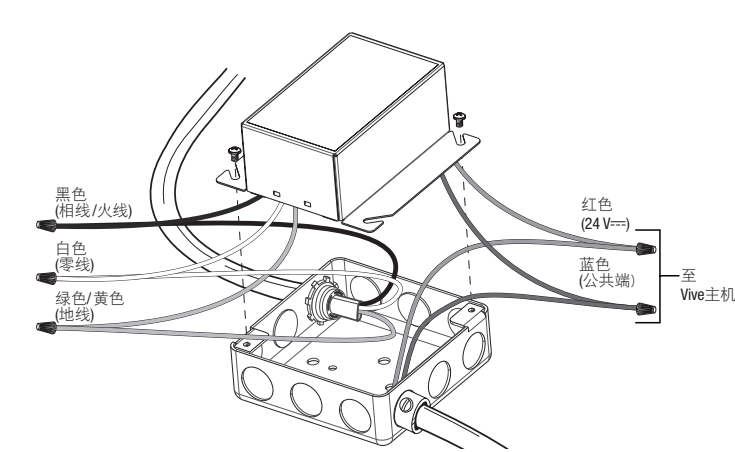
- B.备选安装方法：将表面式安装支架连接至尺寸为101.6 mm x 101.6 mm的美标接线盒(可选)。



### 3 接线

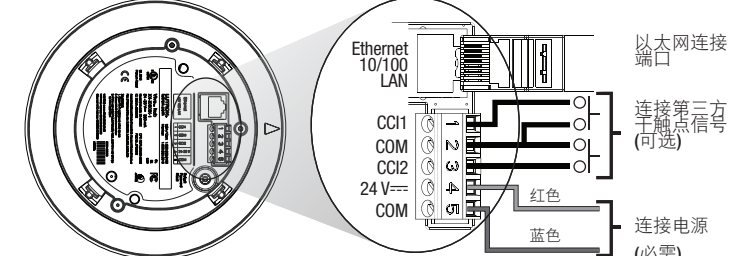
#### A. 电源

- 根据当地电气规范将接线盒接地。
- 将电源接入路创提供的美标101.6 mm x 101.6 mm接线盒。电源必须安装在距离Vive主机30 m以内。
- 接线方式如下所示：  
注意: 将电源PELV低压输出线与其他导体隔离至少6.4mm，或使用绝缘套管或者绝缘体进行隔离。.



#### B. Vive主机

- 将电源低压线接至Vive主机。在大多数应用中需要用额外长度的电线连接接线盒与Vive主机。线径须是0.2 mm<sup>2</sup> -2.5 mm<sup>2</sup> (24 AWG - 12 AWG)。
- Vive主机接线端口。触点信号输入1 (CCI1) 默认设置为启动切负荷。该触点信号闭合，将会减少整体由Vive控制的灯光负荷20%。触点闭合输入2 (CCI2) 默认编程为未激活。CCI2 可在编程期间进行配置。  
注意: 可将端口取下以便于接线。



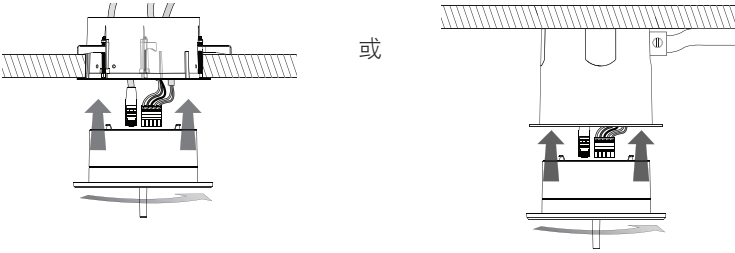
- 将以太网电缆接入楼宇管理系统，有线网络以及其他Vive主机。

### 4 将Vive主机装入安装支架

注意: 在安装主机之前，记录下主机底部标签上的Wi-Fi名称。  
将Vive主机插入吊顶安装支架内，并顺时针旋转直至卡紧固定。

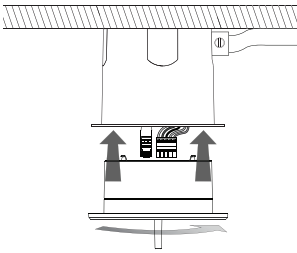
#### 齐平式安装支架

转动Vive主机直至与吊顶齐平贴合。



#### 表面式安装支架

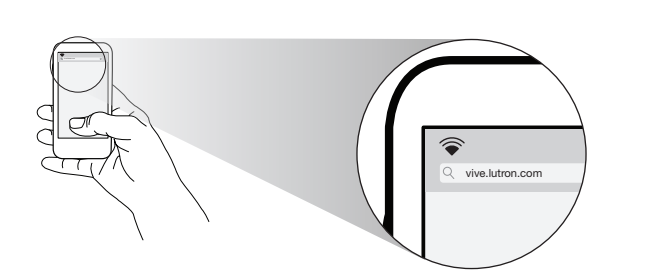
转动Vive主机直至卡紧。



### 5 打开断路器开关 (ON)

### 6 编程

- Vive主机可用带有Wi-Fi功能的智能手机或者平板电脑简便地进行设置而无需特殊的应用程序。
- 在智能设备上打开Wi-Fi设置。
  - 选择Vive主机标签上所示的Wi-Fi名称。
  - 打开浏览器 (*Safari, Chrome*)输入网址vive.lutron.com。



- 根据您的智能设备屏幕上所显示的提示进行系统设置。

## LED 反馈

模式 / 错误	LED 显示说明
正常运行	每10秒闪烁一次白光
软件更新	蓝色光和白色光交替闪烁
恢复出厂设置	绿色光和橘色光交替闪烁
还原	蓝色光常亮

## 故障排除

状况	可能的解决方法
忘记密码	• 长按Vive主机背面按钮20秒或长按直至LED灯白色闪烁。
无法连接Wi-Fi	• 靠近Vive主机。 • 确认主机电源已接通。 • 在智能设备上检查Wi-Fi设置。 • 连接以太网确认主机Wi-Fi已被启用。（参考Wi-Fi设置）。
无法连接以太网	• 确认Vive主机电源接通。 • 确认有线以太网连接正确。 • 确认以太网线长度少于100m。
LED不亮	• 确认Vive主机电源接通。 • 如果Vive主机供电正常，LED每10秒闪烁一次。
LED显示红色	• 如果红色常亮超过30秒，或周期性的出现红色灯亮，请与路创联系。
LED显示蓝色	• 请与路创联系。
外部事件 (例如自动需求响应) 未触发。	• 确认触点信号输入已连接。 • 检查触点信号输入编程。

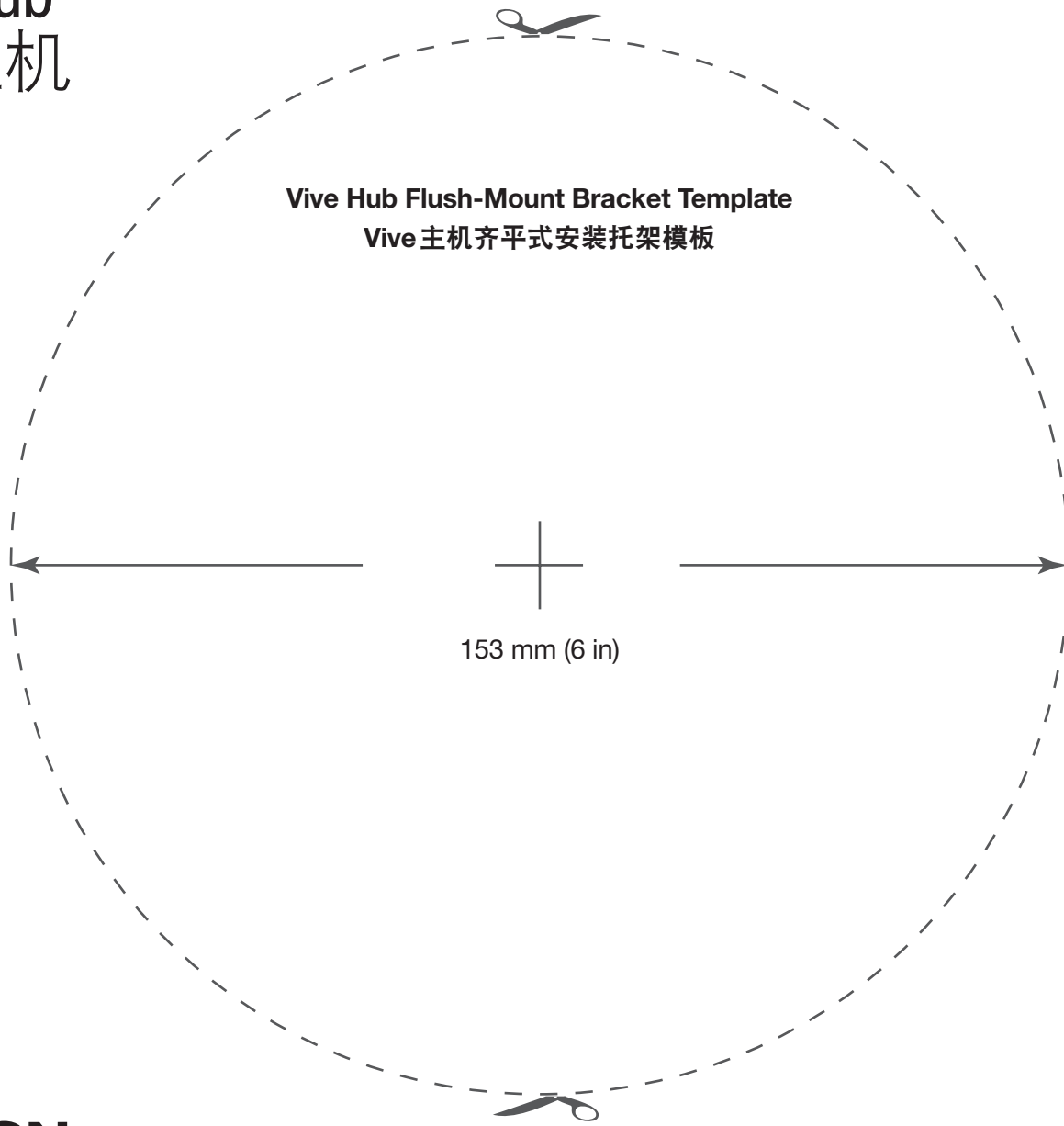
## 技术说明

- 射频频段 - Clear Connect和Wi-Fi的范围:
  - Clear Connect - 868.125 MHz-868.475 MHz
  - Wi-Fi - 2412 MHz-2462 MHz 或 2.412 GHz-2.462 GHz
- 传输功率 - Clear Connect 和Wi-Fi的标称功率 (单位: mW):
  - Clear Connect - 5 mW
  - Wi-Fi - 32 mW
- 占用带宽:
  - Clear Connect - 少于250 KHz
  - Wi-Fi - 20 MHz - 最大速率 4
- 调制方式:
  - Clear Connect - FSK - 频移键控
  - Wi-Fi
    - BPSK - 二进制相移键控
    - QPSK - 正交相移键控
    - 16-QAM - 16正交振幅调制
    - 64-QAM - 64正交振幅调制
    - LOFDM - 晶格正交频分复用

有限质保:  
www.lutron.com/en-US/ResourceLibrary/warranty/Limited%20Comm.pdf  
客服热线:  
中国: 400-046-3600  
其他国家: +1.610.282.3800  
www.lutron.com/support

# Vive Hub

# Vive主机



**Vive Hub Flush-Mount Bracket Template**  
**Vive主机齐平式安装托架模板**

153 mm (6 in)