

# VDB06蓝牙信标使用手册

## VDB06 Bluetooth Beacon User Manual

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V1.02	更新产品图片/Update product pictures	Wendy	20230817

## 设备清单/Product List

设备名称/Device Name	型号/Device No.	数量/Number	备注/Remark
蓝牙 Beacon	VDB06	1PCS	
纽扣锂金属电池/ Button lithium metal battery	CR2032	1PCS	不可拆卸、不可充电电池/Non-removable, non-rechargeable battery

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## 1. 产品介绍/Product Introduction

VDB06 是一款防拆型资产标签蓝牙信标。其广播协议符合蓝牙 BLE 广播 iBeacon (Apple) 协议。它通常被安装在一个合适的位置 (例如牛、马等体型较大的动物耳朵上), 周期性地向它的周围环境进行广播, 从而被其他蓝牙设备如蓝牙网关扫描到其广播内容, 并计算出位置信息。通常它是不会被其他 BLE 的主机设备连接上的, 但是可以通过手机 APP 进行连接, 并修改其广播参数等内容。

VDB06 is a asset label Bluetooth beacon with a function to prevent disassembly. Its broadcast protocol conforms to bluetooth BLE broadcast iBeacon (Apple) protocol. It is usually installed in a suitable location(For example, on the ears of larger animals, such as cattle and horses.), periodically broadcast to its surroundings, so that other Bluetooth devices such as Bluetooth gateways can scan its broadcast content and calculate the location information. It is usually not connected by other BLE host devices, but can be connected through mobile APP, and modify its broadcast parameters and other contents.



图 1: VDB06 产品图/ Figure 1: VDB 06 product diagram

### 1.1 VDB06 内部模块介绍/Internal Modules

VDB06 支持计步功能, 实时了解标记的动物的运动情况和位置信息。其内部配置一个纽扣锂金属电池供电。

VDB06 supports step counting function to know the movement and location of marked animals in real time. It is equipped with a button lithium metal battery power.

### 1.2 VDB06 特性/Features

- ◆ 低功耗/ Low Power Consumption
- ◆ 应用灵活/ Flexible application

- ◆ 安装便捷/ Easy to deploy
- ◆ 广播距离可达 70 米/ Advertise Range up to 70 Meters
- ◆ 符合 RoHS, FCC, CE 标准/ RoHS, FCC,CE compliance

### 1.3 VDB06 应用/Application

- ◆ 计步/ Counting step
- ◆ 定位/ Positioning
- ◆ 信息推送/ Information push
- ◆ 身份识别/ Identification

## 2. 硬件参数/Hardware Parameters

产品参数//Product Parameter	
尺寸（长度*宽度*高度）/Dimension(L*W*H)	63.0*36.5*22.0mm
电池型号/ Battery	CR2032WT
工作温度/Operating Temperature	-40℃~85℃

蓝牙参数/Bluetooth parameters	
无线标准/ Wireless Standards	蓝牙®4.2
频率范围/ Frequency Range	2400MHz---2483.5MHz
数据速率/ Data Rates	1Mbps(Bluetooth ® 4.2)
调制技术/ Modulation Technique	PWM 调制
无线安全/ Wireless Security	AES HW Encryption
传输功率/ Transmit Power	-8, -4, 0, +4dBm
灵敏度/ Sensitivity	-94dBm at 1Mbps BLE
工作模式/ Work Mode	iBeacon
功耗/ Consumption	25uA（默认计步/Default Counting step）
	15uA（不计步/No Counting step）

广播功率/ TX Power	覆盖范围/ Adv. Distance	广播间隔/Adv. interval	电池使用时间 (月) / Battery life(Month)
+4dBm	70m	10000ms (计步/Counting step)	10.5
		10000ms (不计步/No Counting step)	22.3
+0dBm	50m	10000ms (计步/Counting step)	12.6
		10000ms (不计步/No Counting step)	25.2

注：功耗数据仅供参考，未考虑电池自放电因素，当计算寿命大于电池寿命（5年）时，以电池寿命为准；上述计算默认采用 220mAh 作为电量参考。

Note: The power consumption data is for reference only, and the battery self-discharge factor is not considered. When the calculated life is greater than the battery life (5 years), the battery life shall be the criterion. The above calculation uses 220mAh as the power reference by default.

### 3. 联系方式/ Contact information

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