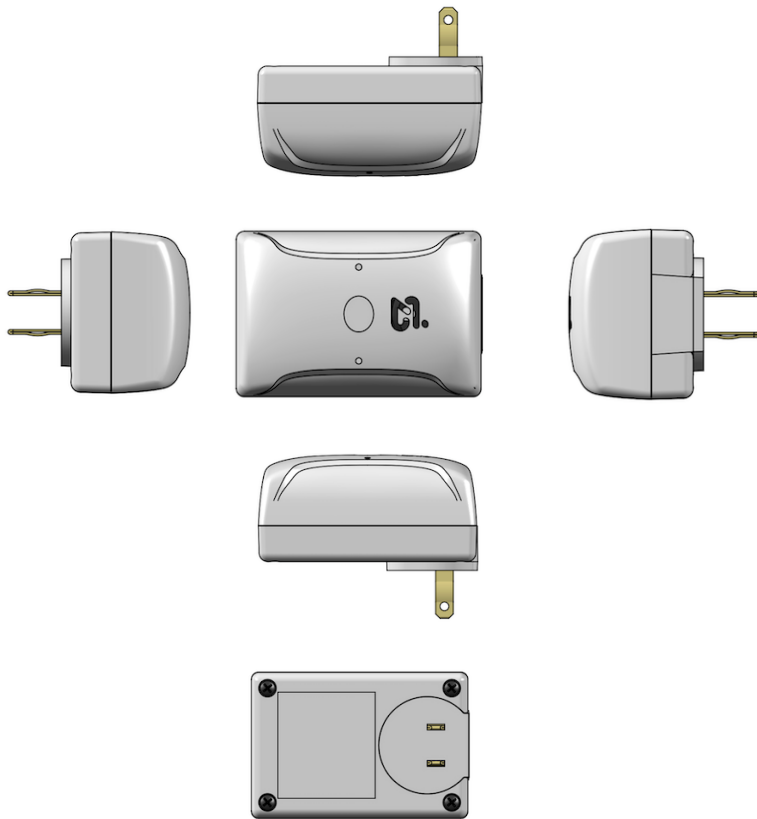


mIRB

Motion Identification Radio Beacon



Discover motion and environmental monitoring with MIRB. Featuring the advanced Sensirion SCD4X sensor for CO2, temperature, and humidity measurements. This state-of-the-art tool offers consistent and reliable motion detection using infrared technology, coupled with efficient beacon identification, and is now equipped to provide vital environmental data. Designed to safeguard spaces, oversee assets, and optimize room occupancy and conditions, our device is the ultimate solution for a smarter, safer, and more sustainable environment.

Whether it's for managing HVAC systems more effectively, reducing energy consumption, or ensuring the well-being of occupants, our enhanced device is your gateway to a practical, tangible, and intelligent monitoring solution.

Explore the possibilities of enhanced environmental awareness combined with precise asset tracking and motion detection. Experience the benefits of a device that not only understands movement but also monitors the quality of your indoor environment, making it an indispensable tool for modern living and workspace management.

Part	PIR Sensor	Mounting Style		Connectivity		Release Date
MIRB_2P_US_C02	Panasonic	US 2 Prong		WiFi	-	March 2024

Part		
EKMC1607111	Panasonic PIR Sensor	https://mm.digikey.com/Volume0/opasdata/d220001/medias/docus/695/EKMC160711x_Spec.pdf
SCD40	Sensirion CO2 Sensor	https://sensirion.com/media/documents/48C4B7FB/64C134E7/Sensirion_SCD4x_Datasheet.pdf

Units from Tendie will ship with ESPHome Firmware!

Units will ship with a flashed copy of ESP Home.

Default AP SSID will be "Brewer Systems mIRB"
PSK will be 9703125641

Connect to the device provide your OTA firmware, or update with your credentials to launch with default Home Assistant Settings.

github.com:nathanabrewer/mirb-beacon-esphome.git

Device Features

All voltage input (AC: 90 ~ 264V)

Sealed Enclosure, Wireless Design.

Landmark/Geo Referencing Beacon Placement

Capture nearby asset traffic

Capture regional motion activity

Plug and Play Monitoring Solution

Device Characteristics

Wi-Fi Protocols	802.11 b/g/n (802.11n up to 150 Mbps)
Test Reliability	HTOL/HTSL/uHAST/TCT/ESD
RF certification	FCC/CE-RED/IC/TELEC/KCC/SRRC/NCC
Bluetooth Protocols	Bluetooth v4.2 BR/EDR and BLE specification
Bluetooth certification	BQB
Radio	NZIF receiver with -97 dBm sensitivity Class-1, class-2 and class-3 transmitter
Frequency Range	2.4 GHz ~ 2.5 GHz

Absolute Min/Max

Ambient Temp	-20~+60°C (-4~+140°F) - Not for use in freezing or condensation environment
Storage Temp	-20 ~ +70°C (-4~+158°F)
Voltage	90-264 VAC
Rating	100-240 VAC

Max Input Current	≤0.2 A
Max Input Surge	≤10 A
Frequency Range	2.4 GHz ~ 2.5 GHz