gumband

User Guide

● Overview

Introduction

Gumband's Presence Sensor will let you and your team capture real-time engagement data for your in-person spaces and experiences.

The unit is powered by a privacy-centric sensor using 60 GHz mmWave radar, with on-board processing for dwell tracking and interface control. This sensor allows for maximum simultaneous tracking of 20 people in a space, with up to a 6 m x 6 m tracking area and 120° field of view (FoV).

Power over Ethernet (PoE) enables a single cable solution for power and data, as well as live data visualization over a network connection.

Table of Contents

• 01 Specifications

Electrical

PoE PD Compliance	IEEE 802.3af
PoE Mode	Mode B
Voltage	36–57 VDC
Power Consumption	Avg. 5.50 W / Max. 7.0 W
Cable Requirements	Shielded twisted pair
Safety Standard	UL/c-UL/EN/CB 62368-1

Environmental

Operating Temperature	-10°C to 60°C
Relative Humidity	25% to 80% (Non-Condensing)
Vibration	TBD [†]

† This is not a sensor shock endurance rating. Output data integrity is impacted by vibration events in excess of this rating during operation.

Network

IPv4	DHCP or Static [†]
Ports	1883/8883 and 80/443 [‡]
Max. Throughput	2 Mbps [§]

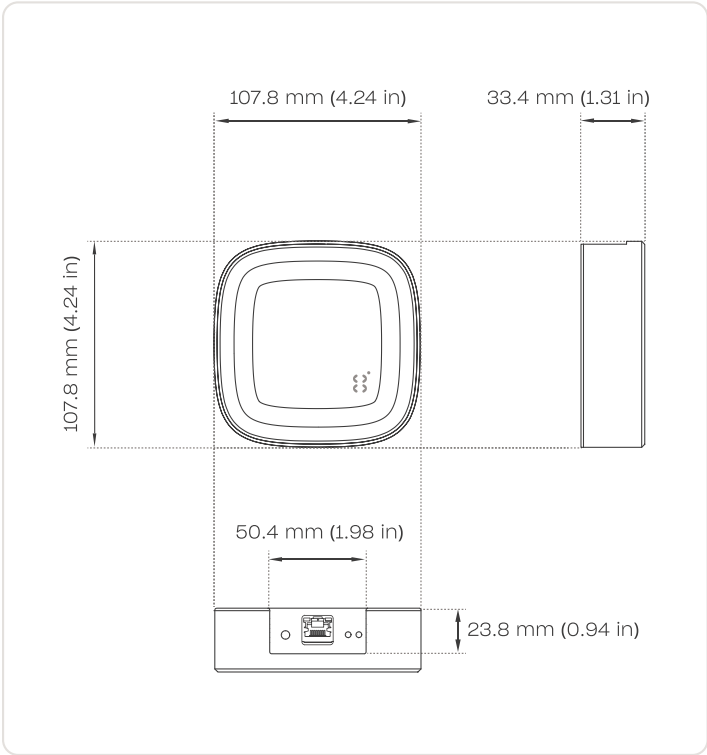† Default is DHCP but configurable to use Static.

‡ MQTT is the primary protocol, HTTP ports only used for updates.

§ Network traffic is highly dependent on activity within the field of view of the sensor, typical data is <10 Kbps.
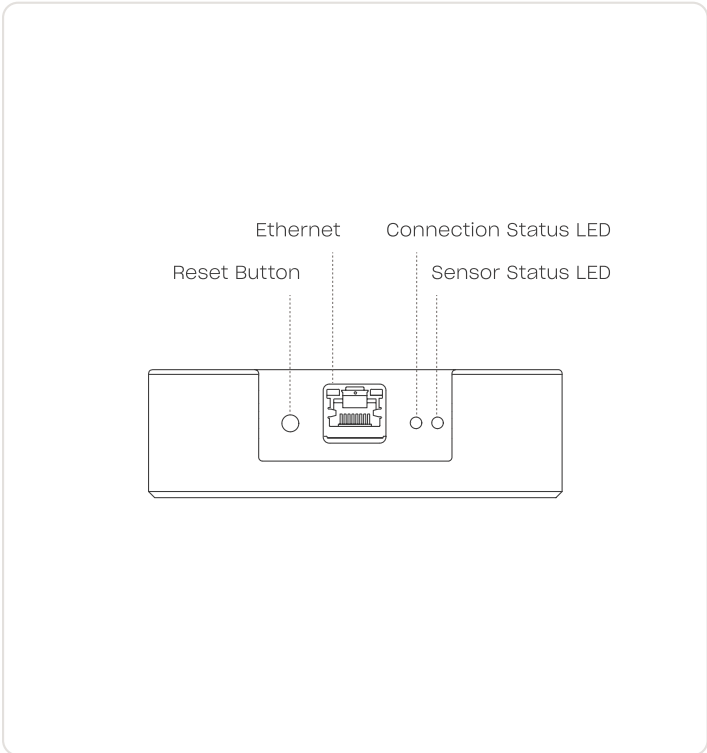
Material

Housing	6061 T6 Aluminum
Radome / Faceplate	ABS
Weight	370 g (13.05 oz)

Dimensions

107.8 mm (4.24 in)

33.4 mm (1.31 in)

107.8 mm (4.24 in)

50.4 mm (1.98 in)

23.8 mm (0.94 in)

Inputs/Outputs
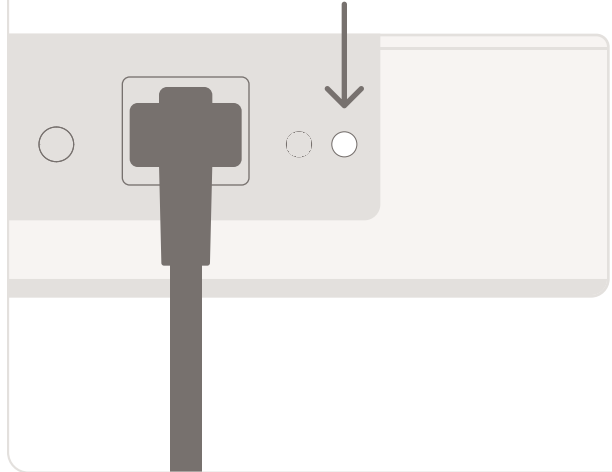

Ethernet

Connection Status LED

Reset Button

Sensor Status LED

• 02 Setup

1

Log in to the Gumband platform at **app.gumband.com** and follow the on screen instructions to connect your device to your exhibit.
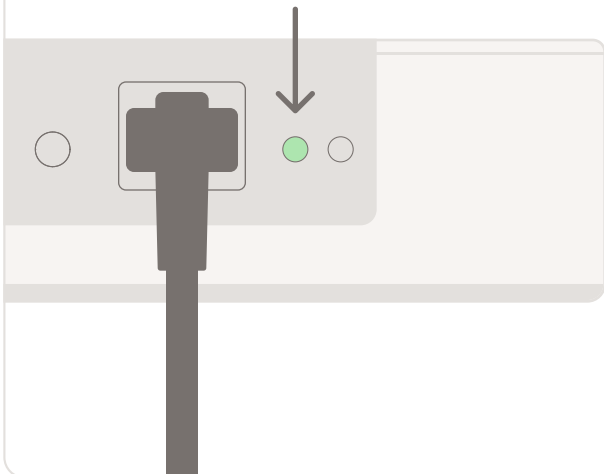

2

The sensor status LED will illuminate solid white once the device has booted and the radar is enabled.

Please see our troubleshooting guide if the sensor status LED displays another color or pattern.
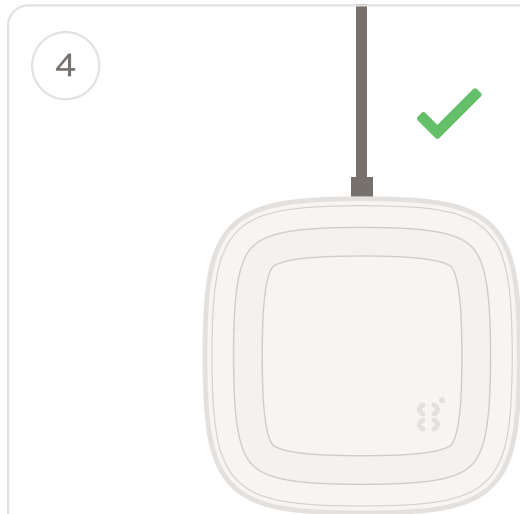

3

The connection status LED will slowly pulse green once the device is connected to the Gumband Cloud.

Please see our troubleshooting guide if the connection status LED displays another color or pattern.

4

The sensor will automatically begin streaming data once these steps have been completed successfully.