

# The Room Radar

Ai People Counting Sensor



## Device Features

- Up to 99.8% accuracy
- Wide angle, long-distance maps
- Adapts in low-light
- No image, privacy-safe
- Smart U-turn counting
- LoRaWAN®/Ethernet data transmission

The Tether Room Radar powered by Milesight's innovative VS133 sensor utilises second-generation ToF (Time of Flight) technology to accurately count people. This advanced technology delivers more precise depth maps and extended detection distances, ensuring top-notch privacy protection. Enhanced by AI algorithms, the VS133 sensor can adeptly manage intricate scenes and differentiate non-human objects with an impressive accuracy of up to 99.8%. This sensor is compatible with Tether LoRaWAN® gateways and the Tether Platform. Additionally, there's the PoE version which offers straightforward Ethernet connectivity and various data transmission options. Given the ease of installation, the Room Radar is optimal for entrances or corridors in retail stores, malls, offices, subways, and other venues.

<https://Tether.co.nz>

## Core Applications

- ✓ Offices and meeting rooms occupancy monitoring
- ✓ Customer flow analysis on stores and shopping malls
- ✓ Passenger flow analysis on buses or subways

## The Room Radar Specifications

### PHYSICAL

Size	180 × 26 × 72 mm
Local Storage	4GB Flash to store one million data points
Power Supply	12VDC 2A / 802.3at POE
Installation	Ceiling Mounting, Extended Ceiling Mounting & Lintel Mounting

### COMMUNICATION

ISM Radio	LoRaWAN: 868 MHz - 928 MHz
Ethernet Port	1 × RJ45 10/100 Mbps( PoE PD)
Network Protocol	HTTP, MQTT, NTP ,etc.

### People Counting

Field of View	98° Horizontal, 80° Vertical
Measuring Accuracy	< 3.5cm
Detection Range	0.5 to 3.5m
Installation Height	≤ 3.5m
Recognition Rate	Up to 99.8%
Advanced Features	Customized Multiple Counting Lines, Filter U-turns, Bi-directional Counting

Monitored Area		
Installation Height (m)	Monitored Area (m)	Detection Area (m)
2.5	5.75 x 4.20	1.84 x 1.34
2.6	5.98 x 4.36	2.07 x 1.51
2.7	6.21 x 4.53	2.30 x 1.68
2.8	6.44 x 4.70	2.53 x 1.85
2.9	6.67 x 4.87	2.76 x 2.01
3.0	6.90 x 5.03	2.99 x 2.18
3.1	7.13 x 5.20	3.22 x 2.35
3.2	7.36 x 5.37	3.45 x 2.52
3.3	7.59 x 5.54	3.68 x 2.69
3.4	7.82 x 5.71	3.91 x 2.85
3.5	8.05 x 5.87	4.14 x 3.02