

Product introduce

This AI Elderly Care Radar is equipped with spatial area division and zoned linkage functions, enabling real-time monitoring of data such as human presence status, location, count, fall incidents, activity status, ambient light intensity, sleep respiration and heart rate. The device supports multiple installation methods including wall-mounted, ceiling-flush mounted and top-embedded installation. It can be widely applied in fields like intelligent lighting linkage, security early warning and elderly care, providing users with an efficient and intelligent health care solution.

Features

- Supports four modes: People Tracking, Fall Monitoring, Sleep Monitoring, and Full Function.
- Integrates core detection functions including fall detection, presence detection, sitting posture, lying posture, respiration rate, and heart rate monitoring, providing all-round human status perception.



Basic Information

- Product Model: MR02
- Power Supply: DC5V 2A
- Power Consumption
 - Average Power Consumption: < 4.3W
 - Instantaneous Power Consumption: < 9W
- Communication Method: WiFi 2.4GHz
- Operating Temperature: -10°C - 45°C
- Operating Humidity: 5% - 95% RH
- Product Dimensions: 70x70x27mm (excluding base)
- Installation Method: Ceiling-mounted or side-mounted
- Protection Rating: IP65

Radar Parameters

- Operating Frequency Band: 60GHz-64GHz
- Bandwidth: 4GHz
- Modulation Mode: Frequency Modulated Continuous Wave (FMCW)
- Transmit Power: 11dBm
- Antenna Transmit-Receive Count: 4T4R

Mounting Environment&Detection Range

- **Coverage Angle:** 140° fan coverage
- **Mounting Height**
 - Ceiling Mount:** 1.5m ~ 3.3m
 - Wall Mount:** 1.5m ~ 1.8m
- **Human Tracking Range**
 - Ceiling Mount:** Length 6m × Width 4m
 - Wall Mount:** 6m straight ahead, 4m on each left & right side
- **Fall Detection Range**
 - Ceiling Mount:** Length 6m × Width 4m
 - Wall Mount:** 4m straight ahead, 3m on each left & right side
- **Respiration & Heart Rate Detection Range**
 - Ceiling Mount:** Length 2m × Width 2m
 - Wall Mount:** 2m straight ahead, 1m on each left & right side

