



mmWave Radar

Ceiling Mounted Radar Device

Product

The mmWave FD02 ceiling-mounted radar device offers touchless and non-invasive technology for monitoring various aspects such as falls, vital signs, sleep quality, behavioral patterns, and location. It serves as a replacement for bed mats, floor mats, and door sensors.

This data-driven solution, centered around AI and ML, provides predictive and preventive analysis reports to ecosystem partners.

Key Features:

- Fall detection for 1-3 people
- People counting
- Real-time presence and location tracking for up to 3 people
- Detects movements in and out of bed or bedroom, including bathroom visits
- Off-bed monitoring to track when a user leaves the bed and does not return within a specified time
- Monitoring of heart or respiratory rates with alert notifications for thresholds
- Analysis of sleep quality
- Inactivity alarm triggered after 24 hours of no room or outside-room activities
- Pet immunity for pets weighing 20 to 30 kgs
- Low false or missed alert rate of less than 1%

Specifications

- ① Radar Chipset:
CALTERAH,60-64GHz,4Tx/4Rx,FMCW
- ② Network Communication:
2.4GHz Wi-Fi or 4G LTE
- ③ Two-way voice calling:
VoIP via Wi-Fi or 4G LTE
- ④ Detection Range (Max.): 4*6m (24m²)
- ⑤ Heart Rate/Respiratory
Rate Detection Range(Max.): <3.5m
- ⑥ Installation Height:
Wall: 1.5-1.8m
Ceiling: 2.0-3.3m
- ⑦ Communication Protocol: TCP/SDK integration
- ⑧ Waterproof: IP65
- ⑨ System Power: 5V2A, 4.3W(max. 9W)
- ⑩ Size: 70*70*27mm
- ⑪ Weight: 76g

The next generation of Aged Care technology

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