MR01
AI Fall Detection Assistant Radar

MR01 is an edge-AI powered millimeter-wave radar product designed for the elderly healthcare scenarios. Suitable for bedrooms, living rooms, bathrooms and other indoor environments, it supports a maximum detection coverage of 6m x 4m area. It can accurately detect accidental falls and bed-exit status of the elderly while fully protecting their privacy.

Fall Detecion
Wi-Fi
Bed Exit Detecion
PoE

Key Benefits

Accidental Fall Detection & Bed Exit Detection:
Extra safety protection for the elderly

MR01 can detect accidental falls of the elderly within its detection range and trigger an alarm to notify the caregiver for timely response. To a certain extent, this avoids secondary injuries caused by delayed treatment after a fall.Meanwhile, MR01 can also monitor the bed-exit status of the elderly.When the elderly person leaves the bed, the system will notify the caregiver to provide support and assistance.

Multi-person detection:
Suitable for complex operating environments

When multiple people are present within the MR01's detection range, it can still perform fall detection. When multiple beds are within the MR01's detection range, the MR01 can independently conduct bed-exit detection for each bed and report bed-exit information.

Ideal for massive installation:
supports PoE power supply and batch configuration

Supports multiple power supply methods including PoE and Type-C, as well as various network connections such as Ethernet and Wi-Fi. It also supports device configuration export and batch deployment, making it highly suitable for large-scale installation and deployment in scenarios like nursing homes.

Compatible with Akuvox Cloud Service

MR01 supports Akuvox Cloud Service and enables remote maintenance via the cloud. When an alarm is triggered by MR01, notifications can be sent to the caregiver's Smartplus APP through Akuvox Cloud Service.

Specifications

Physical & Power

Housing Material	Plastic
Power	IEEE802.3 PoE or 5V2A DC adapter(Type-C)
Wi-Fi	IEEE802.11(b/g/n)
Alarm Buzzer	Support
Speaker	1
RJ45 Port	1
Type-C Port	1
Working Temperature	-10℃ ~ +45℃
Storage Temperature	-20℃ ~ +70℃
Working Humidity	10% ~ 90% RH
Dimensions	Φ110 mm x 24 mm
Installation	Wall-mounting & Ceiling-mounting

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Specifications

Radar Parameters

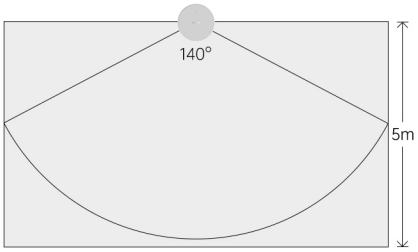
Operating Frequency Band	60GHz-61GHz
Bandwidth	1GHz
Modulation Mode	Frequency Modulated Continuous Wave (FMCW)
Transmit Power	11dBm
Antenna Transmit-Receive Count	4T4R
Relay Output	1

Detection Range

Ceiling Mounting	6m x 4m
Wall Mounting	Maximum 5m ahead，fan-shaped 140° range

• Ceiling Mounting

• Wall Mounting



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