

AI Fall Detection Assistant Radar



Fall Detection • Bed-Exit Detection • Wi-Fi • PoE

AIO-F-1 brings intelligent fall detection and bed-exit monitoring to everyday care, helping caregivers stay informed while respecting personal privacy. Powered by edge AI and mmWave radar, it blends naturally into indoor care environments such as bedrooms, living rooms and bathrooms, and covers an area of up to 6m × 4m when mounted on the ceiling.

Key Benefits

Timely Alerts for More Attentive Care

When AIO-F-1 detects an unexpected fall, it alerts caregivers so they can respond quickly, reducing the risk of further injury caused by delayed assistance. Bed-exit monitoring also notifies caregivers when a resident gets out of bed, so the right support can be provided when it is needed.

Individual Attention, Even in Shared Spaces

AIO-F-1 continues to detect falls even when several people share the same space. In rooms with multiple beds, it monitors each bed individually and reports bed-exit status, so caregivers can stay attentive to each person's needs.

Easy to Install, Ready to Scale

AIO-F-1 offers flexible power and connectivity options to suit each installation site. With PoE and Type-C power options plus Ethernet and Wi-Fi connectivity, installation is simple. Configuration export and bulk deployment make rollout smooth across nursing homes and large care facilities.

AIO-F1 Specifications

Physical & Power

Housing Material	Plastic
Power Supply	IEEE802.3 PoE or 5V2A DC adapter (Type-C)
Wi-Fi	IEEE802.11 (b/g/n)
Alarm Buzzer	Supported
Speaker	1
RJ45 Port	1
Type-C Port	1
Operating Temperature	-10°C ~ +45°C
Storage Temperature	-20°C ~ +70°C
Operating Humidity	10% ~ 90% RH
Dimensions	Φ110 mm x 24 mm
Mounting	Wall mounting and ceiling mounting

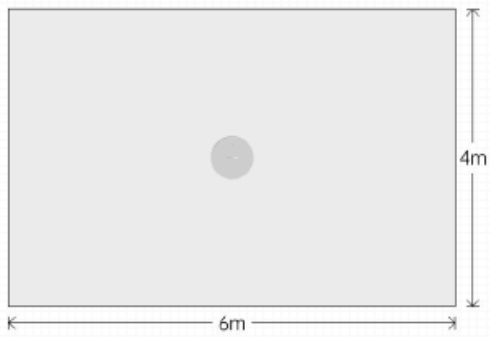
Radar Parameters

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

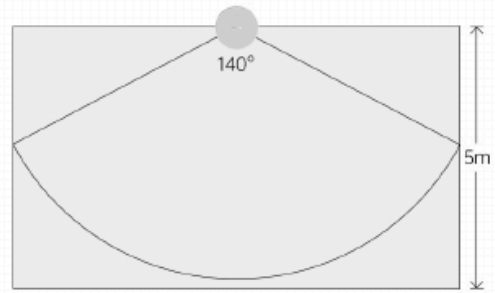
Detection Range

Ceiling Mounting	6m x 4m
Wall Mounting	Up to 5m forward, 140° sector

- Ceiling Mounting



- Wall Mounting



Contact: support.inter-tel.co.jp

Inter-Tel Japan KK

Square Daikanyama 1F, 8-7 Daikanyama-cho, Shibuya-ku, Tokyo 150-0034, Japan

Tel: +81-3-6721-7098 | Fax: +81-3-6721-7099