

IRS-BFDR6-H1AG Fall Detection Radar Sensor



IRS-BFDR6-H1AG is a millimeter-wave radar based on the 60 GHz frequency band for people fall detection. The radar adopts the FMCW technology and comprehensively uses MIMO, beamforming, group tracking and deep learning technologies to realize indoor people detection and fall detection.

Fall detection radar can be applied to private places such as bedrooms, living rooms, toilets and kitchens, without privacy disclosure.

- Adopt millimeter-wave radar detection without visual sense, no privacy disclosure.
- 24 x 7 detection without the influence of illumination and temperature.
- High detection accuracy and low false alarm rate.
- Detect person presence in the area.
- Non-contact detection.
- Support two-way audio function.



▪ Specification

Radar	
Working Frequency	60 GHz to 64 GHz
Modulation Waveform	FMCW
Detection Distance	0.3 m to 6 m
Scan Bandwidth	1.7 GHz
Distance Resolution	0.1 m
Horizontal Detection Angle	-45° to 45° (3 dB)
Vertical Detection Angle	-30° to 30° (3 dB)
Data Period	66 ms
Functions and Events	
Fall Detection Event	10s to 255s configurable, 30-60s suggested
Sit-on-Floor Detection Event	10s to 255s configurable, 60s suggested
Presence Detection	Presence detection in the room, In bed status, Out of bed status, Long-time out of bed status, In sofa status, Out of sofa status, Sofa Overstay Detection, In custom area status, Out of custom area status.
Interface	
Power Input	12 VDC or PoE power supply
Alarm Output	Switch volume (without voltage)
Communication Interface	Wi-Fi (2.4 G frequency band) RJ45 Ethernet interface
Communication Protocol	OTAP protocol
General	
Working Temperature	-10 °C to 50 °C (14°F to 122 °F)
Dimensions	110.50 mm × 104.10 mm × 67.80 mm (4.35" × 4.1" × 2.67") (L × W × H)
Protection	IP65

▪ **Available Model**

IRS-BFDR6-H1AG, Fall Detection Radar

▪ **Dimension**

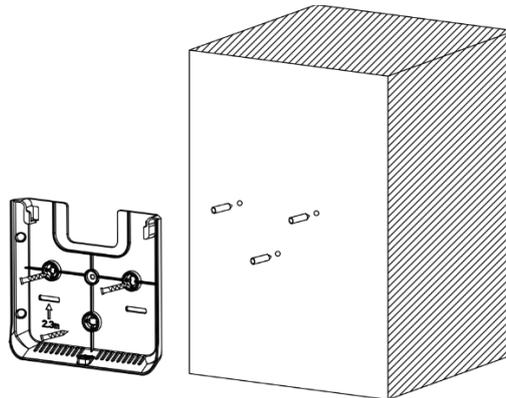
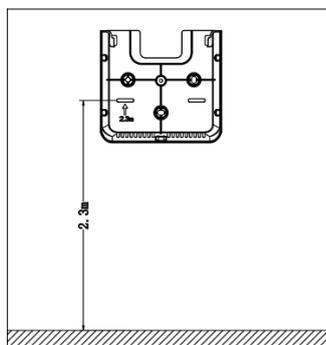


▪ Typical Application

Bedrooms, living rooms, toilets, and kitchens.

Installation height: 2.3 m above the ground.

Installation angle: attached to the wall



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