

IRS-BVSMR3-H3AG Auxiliary Care Sensor



IRS-BVSMR3-H3AG is a millimeter-wave radar for vital sign monitoring based on the 60 GHz frequency band. The radar adopts the FMCW technology and comprehensively uses MIMO, beamforming, micro-Doppler feature extraction and other technologies to realize the detection of vital signs such as absence, respiration, heartbeat, etc.

The radar sensor can be installed above the head of the bed to provide non-contact coverage of the bed area, and it obtains the information such as the time duration in the bed, the time duration out of the bed, respiratory rate, heartbeat rate, body movement times, etc., so as to assist in the analysis of human sleep quality and health status. Besides, it also has two-way audio and emergency rope pull alarm functions.

- Adopt millimeter-wave radar detection without visual sense, no privacy disclosure.
- 24x 7 detection without the influence of illumination and temperature.
- Detection of person presence in the bed.
- Detection of respiratory rate, heartbeat rate.
- Support two-way audio.
- Support emergency rope pull alarm function.
- Detachable cord for flexibility



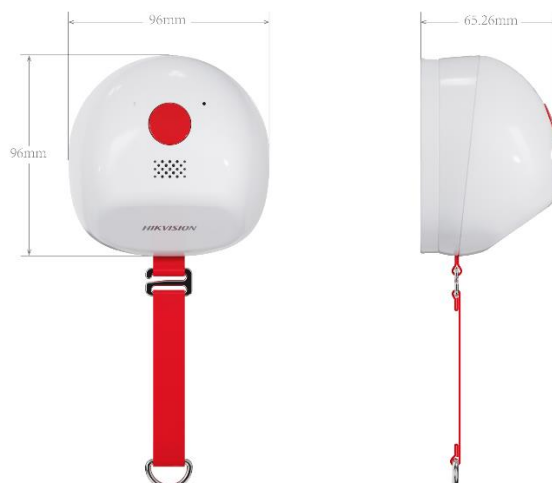
▪ Specification

Radar	
Working Frequency	60 GHz to 64 GHz
Modulation Waveform	FMCW
Detection Distance	0.5 m to 1.5 m
Scan Bandwidth	3.5 GHz
Distance Resolution	0.0435 m
Horizontal Detection Angle	-25° to 25°
Vertical Detection Angle	-10° to 10°
Data Period	50 ms
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	-40 °C to 50 °C (-40 °F to 122 °F)
Dimensions	96 mm × 96 mm × 65.26 mm (3.8" × 3.8" × 2.6") (L × W × H)
Gross Weight	439 g
Net Weight	184 g
Emergency Cord	20cm, Detachable

▪ Available Model

IRS-BVSMR3-H3AG, Auxiliary Care Radar Sensor

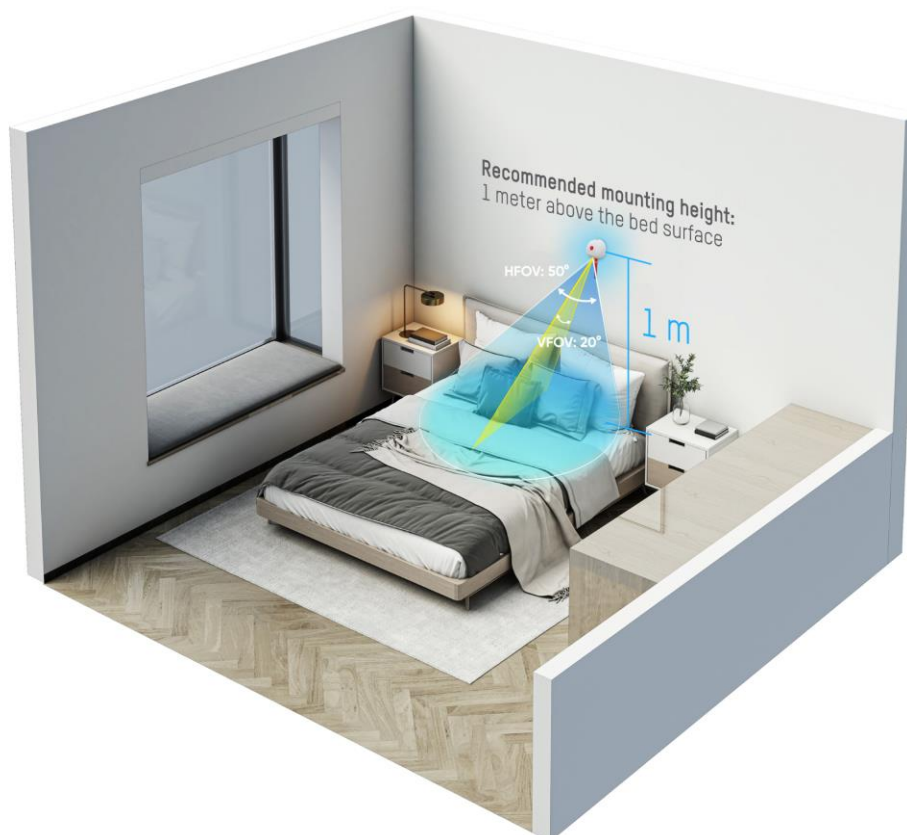
▪ Dimension



▪ Typical Application

Installation height: 1 m above the bed.

Coverage area: 1.5-meter width single bed



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