

A red horizontal bar with rounded ends on the right side, containing the product name in white text.

DS-TDSB00-EKH/POE/2M Auxiliary Care Radar Sensor



Introduction

Based on the 60 GHz frequency band, vital sign detection radar adopts FMCW, MIMO, beamforming, micro-Doppler feature extraction, and other technologies. It can detect the vital signs, including person, breath, heartbeat, etc. Vital sign detection radar can be installed above the bed in the bedroom, and the non-contact detection will cover the bed. It can obtain the information, including the time in the bed, the time out of the bed, breath rate, heart rate, times of movements, etc., and help to analyze the sleep quality and health of the human body.

- No privacy disclosure.
- Remote and non-contact detection.
- Outputs the real-time breath rate and heart rate of the human body.
- Detects and outputs the information that if the human body is in the bed to the connected client software. Counts the time in the bed and the time out of the bed.
- Detects and outputs the human body movements to the connected client software, and counts the times of movements.
- Supports transmitting data to platform by OTAP protocol.
- Supports connecting to Wi-Fi.
- Supports side mounting and cell mounting.

▪ Specification

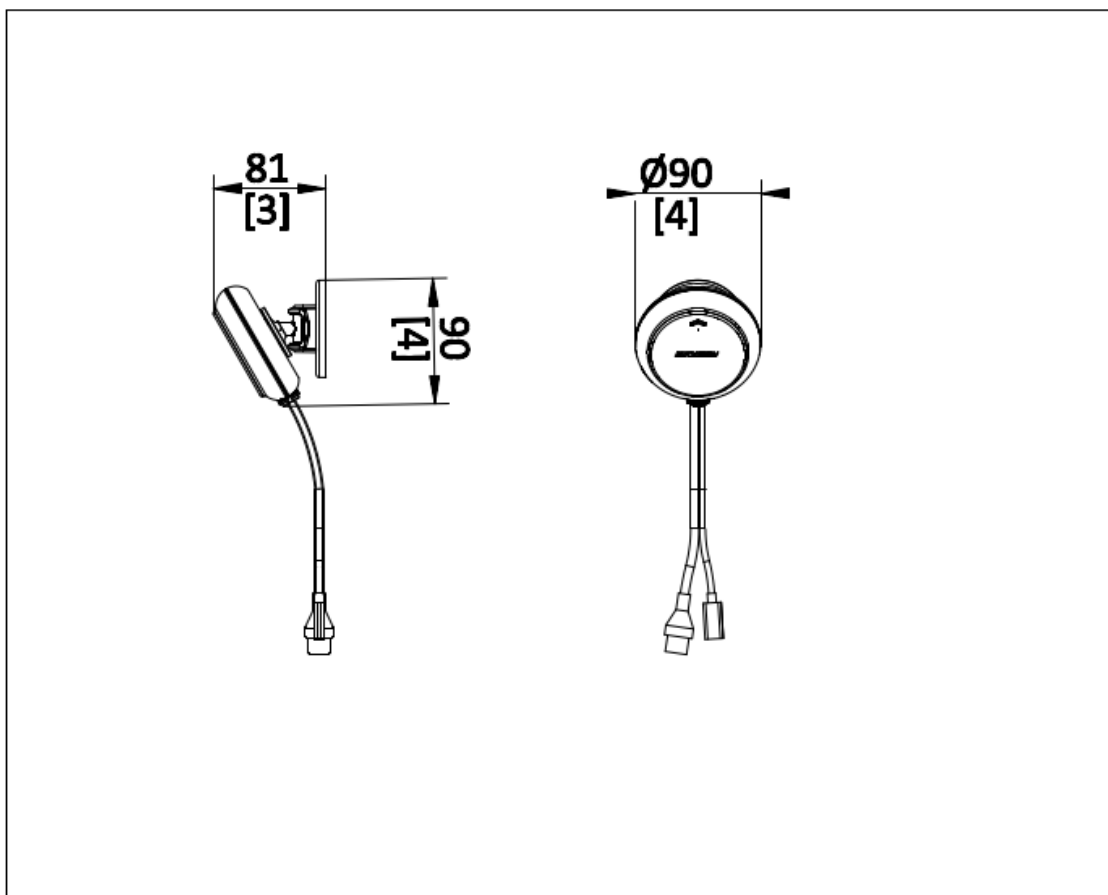
Radar	
Working Frequency	60 to 63 GHz
Modulation Waveform	FMCW
Horizontal Detection Angle	± 25°
Vertical Detection Angle	± 10°
Max. Detectable Targets	Up to 1 target(s)
Detection Target Type	Human
Detection Distance	2.7 m
Function	
General Function	Supports human body detection, body motion detection, and respiration and heart rate monitoring.
Network	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, SMTP, SNMP, IGMP, 802.1X, IPv4/IPv6, UDP, SSL/TLS, ISUP, ARP
API	ISAPI, SDK, OTAP
User/Host	Up to 16 users, 3 user levels: administrator, operator, and user.
Security	Password protection, complicated password, HTTPS encryption, basic and digest authentication for HTTP/HTTPS, RTP/RTSP over HTTPS, control timeout settings, TLS 1.2, host authentication (MAC address)
Web Browser	IE9 to IE11, Chrome V61+, IE9 to IE11, Firefox V41+, Edge
Client	Hik-Central Pro, Hik-Connect, Hik-Parter Pro
Interface	
Network Interface	Wi-Fi, 1 RJ45 10/100Mbps self-adaptive Ethernet port(s)
Indicator	Supported
General	
Power	DC 5 V, 2 A, max. 10 W, type-C, PoE: 802.3af, type 1, class 3, max. 10 W
Material	PC
Dimensions	∅90 mm × 81 mm (∅3.54" × 3.19")
Package Dimensions	419 mm × 319 mm × 307 mm (16.5" × 12.56" × 12.09") (L × W × H)
Weight	Approx. 130 g (0.29 lb.)
With Package Weight	Approx. 520 g (1.15 lb.)
Operating Condition	-10 °C to 50 °C (-14 °F to 122 °F). Humidity: 0% to 90% (non-condensing)
Storage Condition	-40 °C to 60 °C (-40 °F to 140 °F). Humidity: 95% or less (non-condensing)
Installation Height	Ceiling mount: height from the bed ≤ 2.7 m, Side mount (recommended mount): height from the bed = 1 m
Approval	
EMC	CE-EMC: EN 55032: 2015/A11:2020+A1:2020, EN IEC61000-3-2: 2019/A1:2021, EN 61000-3-3: 2013+A1:2019/A2:2021, EN 50130-4: 2011 +A1: 2014
RF	CE-RED: EN 305550-2 V1.2.1, EN 300328 V2.2.2, EN 301489-1 V2.2.3, EN 301489-52 V1.2.1, EN 301489-17 V3.2.4, EN IEC 62311:2020
Safety	CB: IEC 61010-1: 2010, IEC 61010-1: 2010/AMD1: 2016, CE-LVD: EN 61010-1: 2010+A1: 2019

Environment	CE-RoHS: 2011/65/EU, WEEE: 2012/19/EU, Reach: Regulation (EC) No 1907/2006
Protection	IP54: IEC 60529: 1989+A1: 1999+A2: 2013

▪ Available Model

DS-TDSB00-EKH/POE/2m

▪ **Dimension**



L × W × H: 81 mm × 90mm × 90 mm (3× 4 × 4)

Camera Mounting Hole[mm]	Camera Mounting Hole[inch]	Unit: mm [inch]	
3-Ø5.5	3-0.217	SCALE	1:1

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