

Specification

Vital Signs Monitor

FS-RDN382

Version 2025-1.1

❖ Product Introduction

The FS-RDN382 vital signs monitor utilizes 60GHz millimeter-wave radar technology for high-precision detection and wide coverage, enabling contactless monitoring of a person's in-bed and out-of-bed status, as well as respiratory and heart rate monitoring. It also detects real-time body movement, identifies abnormal conditions such as standing up, prolonged out-of-bed time, and apnea, and triggers an alarm system. It is highly adaptable to various environments, eliminates the need for identity verification, and strictly protects personal privacy. It is widely applicable in elderly care, ward monitoring, smart healthcare, and home health management.

❖ Product Features

- ◆ Privacy protection, suitable for bedroom installation
- ◆ Contactless detection, no discomfort
- ◆ Respiration and heartbeat monitoring, providing basic data for personal health management
- ◆ Provides bed-in and bed-out data
- ◆ Supports multiple installation methods, adaptable to various scenarios
- ◆ Compact size, low power consumption

❖ Packing List

• Product Pictures



Front View

❖ Product Parameters

Product Model	FS-RDN382
Key Performance Parameters	
Target Detection Number	1
Detection Function	Monitoring of in-bed and out-of-bed status; Supports respiratory and heart rate monitoring; Supports movement detection; Supports HRV heart rate variability monitoring; Supports standing-up alarm (only for top-mounted devices); Supports (long-term) out-of-bed alarm; Supports apnea detection and counts; Supports alarm arming.
Installation	
Installation Method	Ceiling or wall mounted
Installation Height	Ceiling mount (from bed): 0.9m to 2.7m Wall mount (from bed): 0.9m to 1.1m (40° angle recommended)
Coverage Range	Maximum 3m * 3m
Radar Parameters	
Operating Frequency Band	60GHz
Modulation Method	FMCW

Interface	
Wireless Communication Interface	2.4GHz WiFi
Hardware Parameters	
Power Supply	DC 12V, 1.0A (5.5mm round jack)
Power Consumption	≤ 3.5W
Operating Humidity	5% - 95%
Operating Temperature	-20°C - 50°C
IP Rating	IP65
Weight	Approximately 131g (with bracket)
Dimensions (L x W x H)	90.0mm*90.0mm*38.3mm

Website	Technical Support	Sales hotline	Online purchase
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