



Heart Rate



Respiration Rate



Movement Detection



Fall Detection



Stress Relief of Staff

Contactless

Vital Sign Monitoring



Continuous Health Monitoring Service

- Simultaneous measurement of multiple vital signs (eg. heart rate, respiration rate, movement, fall)
- Available on Wi-Fi scope covering the area
- Customized healthcare service (Device + Platform)





Stress Relief of Staff

Sensor support to prevent and minimize potential risks



Unconstrained & Privacy Protection

Non-identified on-site health monitoring without cameras or recording devices



Individualized Care Service

User's vital sign analysis and abnormalities supported by the A.I. algorithm engine



Convenient Installation and Portability

24/7 health monitoring with convenient installation



Contactless Remote Monitoring

Remote Wireless Care Service without inconvenience in wearing between service staff

Join us, Create Future



ttighofferstr. 78, 53123 Bonn

I G JCFTechnology



Contactless

Vital Sign Monitoring



1) Radar Sensor

- · Measuring and transferring Biosignal data
- Heart rate / Respiratory rate / Body temperature
- · Movement / Occupancy / Fall
- 2) Wireless Gateway (AP)

3) Cloud Server

- Judgement Algorithm (Software)
- · A.I. Judgement Cloud Server System

4) Platform

- Automatic emergency alarm transmission
- · Between the user and registered guardians



Wall / Ceiling / Furniture installation radar sensor

- Monitors the user's heart rate and respiratory rate at a distance up to 2m and 5m, respectively
- Connected to gateway using IoT network solutions such as Wi-Fi and Zigbee

Sensor Technology	Micro Doppler Processing
Frequency	24GHz (24.050 ~ 24.250)
Coverage Angle	Horizontal: 80°, Vertical: 35°
Coverage Distance	1~5m (Heart: 2m, Respiratory: 5m, Movement: 7m)
Supply Power	DC 9V
Power Consumption	300mA
Interface	Wi-Fi, Zigbee (USB to UART / optional)

Technical features of product



Hardware technology

- Multi-path processing circuit for complex radar reception signals
- mmWave module circuit & mechanical housing design



Signal processing technology

- Micro-doppler signal processing technology
- Algorithm for applying a weighting competition



Software technology (signal analysis)

- Algorithm for health & sleep pattern analysis software
- Algorithm for emergency pattern judgement
- Dashboard GUI software design



TH International GmbH

Ettighofferstr. 78, 53123 Bonn

+ 49 (0) 162 6613 193

