




# 60GHz mmWave Radar Health Monitoring Sensor

## (Fall/Presence/Out-of-bed Detection)

60GHz health monitoring radar module uses 60GHz FMCW mmWave radar detection technology and the point cloud imaging algorithm to achieve human posture recognition. It can accurately detect the human state (including fall monitoring, presence detection, human posture recognition, etc.), carry out precise health monitoring, and accurately report the residence time and stationary state of the body.

At the same time, it has the advantages of stability, accuracy, security, and no violation of personal privacy. While meeting the various needs of health monitoring, it breaks through the limitations of traditional detection methods such as PIR and camera monitoring.

-  **60GHz FMCW RADAR**
-  **PRESENCE DETECTION**
-  **MOTION DETECTION**
-  **FALL ALARM**
-  **OUT-OF-BED MONITORING**
-  **DEPARTURE DETECTION**
-  **ILLUMINATION SENSING**

## PRODUCT ADVANTAGES CTL SENSOR

### 60GHz mmWave Radar FALL ALARM

Cutting-edge technology, precise detection.

Multi-dimensional analysis of human fall speed and body distance changes, automatic recognition of fall.

### AI ALGORITHM

Self-developed algorithm, accurate detection.

### STAY MONITORING

Automatic reported when overtime stay occurred.

### OUT-OF-BED DETECTION

Monitor the movement and frequency of getting out of bed, report the health state, and alarm when any abnormal occurred.

### DEPARTURE MONITORING

Link the scene of leaving home, or alarm when abnormal occurred.

### 24-HOUR WORKING

24-hour protection, every moment protect.

### PROTECT PRIVACY

Non-camera, no need to wear, much more convenient.

## SMART PENSION CTL SENSOR

### HOME

It is applicable to aged care scenes at home, to detect whether there are falls, overtime stay, abnormal breathing or heart movement. Actively report to realize effectively health monitoring.

### COMMUNITY HOME

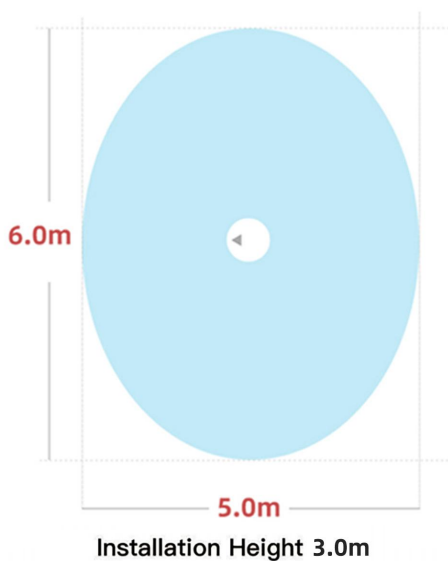
Monitor residents' health state by the community management center. When the sensor detects that the user is in danger, the platform will automatically alarm and notify the community medical staff to come to check and rescue.

### INSTITUTIONAL PENSION

The organization monitors the health status of the elderly, and knows immediately when a dangerous situation occurs, so as to avoid delay in treatment.



## DETECTION RANGE CTL SENSOR



### PRODUCT PARAMETERS

Working Frequency	60GHz ~ 64GHz
Transceiver Channel	4 transmit and 4 receive antennas
Modulation Mode	FMCW
Antenna Horizontal Radiation Range	120°
Antenna Vertical Radiation Range	90°
Installation Method	Top Mounted Installation(2.5~3.2m)
Detection Range	5×6m
LED Indicator	Flashes quickly after receiving the command, dims with the ambient brightness, and can be set to turn off
Working Voltage	DC 12V
Working Current	≤ 300mA
Working Temperature	-10°C ~ 50°C
Protection Grade	IP20
Dimension	Hole cut φ55mm, Front diameter φ65mm, Depth 60mm
Function	Presence detection, Fall detection, Motion recognition, Track detection, etc
Communication	KNX/RS485/Tuya/Zigbee/WiFi

Creatrol Intelligence Co.,Ltd

Tel: +86 021-54325789

Email: contact@creatrol.com

Address: 7F, building C, No. 7001, Zhongchun Road, Minhang District, Shanghai

www.creatrolsensor.com