



Millimeter Wave Biological Radar

Non-contact

Health Monitoring Products

Millimeter wave for Better Life

www.hecaray.com

Health Monitoring Products

Sleep Monitor X1



-  Accurate heart rate, respiratory rate
-  Apnea monitoring
-  Sleep time and period monitoring
-  Emergency warning



X1 is mainly used for monitoring vital signs and early identification of symptoms such as chronic cardio diseases and sleep apnea. Due to its contactless and operation-free characteristics, X1 is particularly suitable for health monitoring of the elderly, children, and people with chronic cardio and pulmonary diseases.

X1 can sense the user's sleep time, deep sleep ratio, heart rate, breathing rate, and apnea and etc. It works in a non-contact way, and it can predict people's cardio health and sleep health.

"Medical Device Registration Certificate of the People's Republic of China" has been obtained

Health Monitor X2



-  Sleep health monitoring
-  Heart health monitoring
-  Respiratory health monitoring
-  Emergency warning



X2 is only 13mm thick and can be placed under the mattress. It is easy to install and does not affect sleep comfort. It collects the human body's breathing, heart rate, body movement and other data in a non-contact way. In addition to monitoring sleep data, X2 can also generate cardiograms to achieve long-term vital sign monitoring and identification of chronic cardio and pulmonary diseases such as sleep apnea, asthma, atrial fibrillation, and arrhythmia.

"The Medical Device Registration Certificate of the People's Republic of China" is under application

Human Presence Products

Human Presence Sensor L2 Pro



-  Environmental self-adaptation
-  Maximum 3x3m monitoring range
-  4G/WiFi connection methods

L2P can accurately sense the human body entering, staying, leaving, etc. within a range of 3x3m, and can correctly sense the human body even if it is in a resting state such as sleep.



Trajectory Detection Sensor L7 Pro



-  Precise monitoring for 4 or more people
-  Maximum 8x8m monitoring range
-  4G/WiFi connection methods

L7P can realize trajectory monitoring of up to 4 people within a 8x8m range. On the basis of ordinary presence monitoring, the moving trajectory monitoring function is added, and human presence sensing in a resting state can be realized.



Fall Detection Sensor L4 Pro



-  False alarm rate < 5%
-  Maximum 3x3m monitoring range
-  4G/WiFi connection methods

L4P adopts top-mounted mode and can monitor people's presence and falls within a 3x3m range. It automatically learns the presence of walls, furniture, objects, etc. in the space, thereby providing a more accurate fall warning function. The false alarm rate of L4 for various fall situations is lower than 5%.



Shanghai Hecaray Technology Co., Ltd. is a **national high-tech enterprise** established by the transformation of technological achievements of **Shanghai Jiao Tong University (SJTU)**, focusing on the research and production of millimeter-wave radar products for indoor life scenarios, and is committed to protecting people's healthy life in a non-contact and comfortable way.

The core technology comes from the **Chinese Key Laboratory of Radio Frequency Wave Heterogeneous Integration** and the **Key Laboratory of Artificial Intelligence of the Ministry of Education**, and has published more than **150** professional academic papers and authorized more than **30** Chinese and American invention patents.

Relying on SJTU, Hecaray teamed up with the top hospitals to address the monitor-ingneeds from doctors and patients. The company's products are used in scenarios such as apnea syndrome, neonatal intermittent hypoxia, cardiopulmonary chronic diseases, and sleep monitoring. The products were clinically validated with excellent feedback.

Hecaray has released multiple products such as sleep monitors, vital signs monitors, fall alarms, and trajectory sensors, and has cooperated with leading technology companies and senior care industry companies such as Huawei, China Pacific Insurance, Fortune Care, and Hikvision. Products have been sold to more than 20 countries and regions at home and abroad.

60+

Top-tier
academic journal papers

90+

International academic
conference papers by team members

20+

Best paper awards

30+

Chinese and American
invention patents



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