

Global Elderly Fall Detection Radar Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Elderly Fall Detection Radar market size is expected to reach \$ 113 million by 2032, rising at a market growth of 16.2% CAGR during the forecast period (2026-2032).

Elderly Fall Detection Radar is a specialized radar system that uses millimeter-wave (mmWave) electromagnetic signals to detect falls in real-time. It works by emitting radio waves that bounce off objects, including the human body. When a person falls, the radar detects the sudden change in movement or position, distinguishing a fall from normal activity. Unlike traditional fall detection methods (wearable devices or cameras), radar-based solutions are non-contact, privacy-preserving, and function effectively in low-visibility environments. These systems can be integrated into smart homes, healthcare facilities, or wearable devices to trigger immediate alerts. The global average selling price for elderly fall detection radar products is approximately US\$135 per unit. The average sales volume in the base year is estimated at 283k units. The industry average gross margin is approximately 40%, with typical ranges between 30% and 50%. The upstream segment includes manufacturers of mmWave radar chips (Infineon, Texas Instruments, etc.), antenna modules, and signal processing components. The midstream segment comprises radar module developers and system integrators that design, assemble, and calibrate complete fall detection solutions. The downstream segment encompasses nursing homes, hospitals, home care providers, and individual consumers.

The elderly fall detection radar market is experiencing rapid growth driven by the convergence of global population aging, rising demand for smart elderly care, and technological advancements in mmWave radar. As the proportion of the elderly population continues to grow, falls have become one of the main risks threatening

independent living and life safety. This is driving demand for non-contact, high-precision monitoring equipment in medical institutions, nursing homes, and families.

The industry is witnessing a fundamental shift from traditional fall detection methods?wearable panic buttons and camera-based monitoring?to radar-based solutions. Radar offers three key advantages over alternatives: privacy protection (no image capture, no visual privacy invasion), non-contact monitoring (no devices to wear, truly 'unobtrusive'), and all-weather operation (unaffected by lighting, smoke, or steam).

The integration of AI algorithms and IoT technologies is further improving judgment accuracy and response speed. As automotive-grade mmWave radar hardware prices have declined rapidly in recent years, elderly fall detection devices have become more affordable, with retail prices dropping to 1,000?2,000 RMB. The market is also seeing the emergence of 'hardware + service' models, with subscription service renewal rates exceeding 80%.

This report studies the global Elderly Fall Detection Radar production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Elderly Fall Detection Radar and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Elderly Fall Detection Radar that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Elderly Fall Detection Radar total production and demand, 2021-2032, (K Units)

Global Elderly Fall Detection Radar total production value, 2021-2032, (USD Million)

Global Elderly Fall Detection Radar production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Elderly Fall Detection Radar consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Elderly Fall Detection Radar domestic production, consumption, key domestic manufacturers and share

Global Elderly Fall Detection Radar production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Elderly Fall Detection Radar production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Elderly Fall Detection Radar production by Application, production, value, CAGR,

2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Elderly Fall Detection Radar market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Vayyar, Tsingray Technology, Talius Group, Hikvision, Uniview, bitsensing, Miaomi Technology, Megvii (Micradar), WHST Co., Ltd., Microbrain Intelligent, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Elderly Fall Detection Radar market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Elderly Fall Detection Radar Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Elderly Fall Detection Radar Market, Segmentation by Type:

60GHz

24GHz

Others

Global Elderly Fall Detection Radar Market, Segmentation by Detection Capability:

Fall Detection Only

Fall Detection + Vital Signs Monitoring

Comprehensive Health Monitoring

Global Elderly Fall Detection Radar Market, Segmentation by Alert Mechanism:

Local Alarm Only

Remote Alert (APP/Call/SMS)

AI-Enhanced Dual Confirmation

Global Elderly Fall Detection Radar Market, Segmentation by Application:

Nursing Homes

Hospitals

Home Use

Other

Companies Profiled:

Vayyar

Tsingray Technology

Talius Group

Hikvision

Uniview

bitsensing

Miaomi Technology

Megvii (Micradar)

WHST Co., Ltd.

Microbrain Intelligent

ifLabel

Dianke AIoT

Infineon

Texas Instruments

Key Questions Answered:

1. How big is the global Elderly Fall Detection Radar market?
2. What is the demand of the global Elderly Fall Detection Radar market?
3. What is the year over year growth of the global Elderly Fall Detection Radar market?
4. What is the production and production value of the global Elderly Fall Detection Radar market?

5. Who are the key producers in the global Elderly Fall Detection Radar market?
6. What are the growth factors driving the market demand?

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